

A TECHNICAL PUBLICATION OF

SYLVANIA

SYLVANIA ELECTRIC PRODUCTS INC. 1740 BROADWAY, NEW YORK 19, N. Y.

SYLVANIA RADIO AND TELEVISION TUBE CHARACTERISTICS CHART

HOW TO USE THIS CHART

The types are listed in numerical and alphabetical order. The second column now lists the Bulb size or style of construction, whichever is most helpful in describing the type. Lock-in, Minature and GT are, of course, well known, but the letters "T" and "ST" may need explaining. "T" means tubular bulb and "ST" is the dome topped bulb as now used in Type 6D6, 24, etc. The following number gives the nominal maximum diameter in eighths of inches. Subminiature types are marked T3, T2 or T1 depending on the bulb diameter.

Note that the 9 pin "minature" is described as $T6\frac{1}{2}$ in order to distinguish it from the $T5\frac{1}{2}$, the original "minature."

Columns are included to show the type of emitter, (cathode or filament), and for interelectrode capacitances on those types having capacitance ratings. On converters the capacitances shown are respectively, Signal Grid to Plate; R-F Input; and Mixer Output. The capacitance values shown are for a shielded tube when the data are available, since this is the latest standard method. Except in the case of obsolete (or newly announced) types, more complete technical data may be found in the SYLVANIA Technical Manual.

The "Basing Diagram" column indicates the internal and external shield connections. For example, this column now shows the basing for Type 7A7 to be 8V-L-5. This means that the active elements are connected as shown in the base diagram 8V, and that the external shielding (in this case the Lock-In base) is connected to the lug (L) and the internal shield to pin 5. This avoids having a separate base diagram for types with a minor difference in shielding. The figures 0-0 indicate no external and no internal shielding respectively.

NOTICE

This chart contains the very latest radio and television tubes in addition to many out-of-date types. It is designed to be of maximum use to servicemen as a quick reference chart.

Please note that all types listed are not available from Sylvania. They are included for your reference in finding substitutes, etc. Consult our price list for types currently available.

The data published here have been compiled from various sources and while believed to be accurate, no responsibility can be assumed in case of error.

Mention or reference to patented circuits does not constitute permission for their use. The license agreement under which Sylvania tubes are sold is enclosed in the tube carton.

S
4
O
-
\vdash
S
91
Œ
ш
-
U
4
H
2
4
I
C
ш
4
4
-
0
Ш
>
4
S
Ш
00
>
-
A
-
Z
Z
Z
A
V V V
VA
LVA
LVA
YLVA
LVA

Construction Class Basing Class Dieg. Diode 580-0-0		Emitter		-	- with- mile and						-					Ohms	Undis-	
Basin D-0-0				200	Capacitances in $\mu\mu f$.		-		Negative		Plate	Screen	Plate		Ampli-	Load	Power	
BO-0	I Type	Volts	Amps.	Cgp.	Ğ.	Court	5	Volts	-	Volts	χ	Ma.	Ohms	Micromhos	-	Power	Milli- watts	Iype
	Filament	1 5.0	0.25	8.5	3.2	2.0	Detector	45	0		1.5	7	30,000	999	20 20			OOA
4AJ-0-0							Voltage Regulator with starting Voltage at 100, Operating Voltage 75, Operating Current 5 to 40 Ma.	ator with s	terting Volt	age at 100	Operating.	Voltage 75	Operating ,	Current 5 to	40 Ma.			OA3/VR75
4V-0-	Cold K			44	10000		Switching	750	Trigger Grid	D-C Catho	de Ma. = 2:	Max. Start is. Trigger P	ulse Voltage	op = 60V. A = 85 Volts	Keep Alive	de Ma. = 100 D-C Cathode Ma. = 23 Max. Starter Anode Drop = 60V. Approx. Anode Drop = 70V. Ap Trigger Grid Voltage = +90 Volts. Trigger Pulse Voltage = 85 Volts. Keep Alive Current = 50 µa.		OA4G
5RO.0-0	Cold K						Voltage Regul	ator with e	Trigger Gric	Circuit Res	Onerating	Voltage 10	5 Operation	Current 5 to	30 Ma			Opo
4AJ-0-0							Voltage Regulator with starting Voltage at 125, Operating Volts 90, Operating Current 10 Ma. Min. 30 Ma. Max.	ator with s	tarting Volt	age at 125	Operating.	Volts 90, C	Operating Cu	rrent 10 Ma.	Min. 30 Me	. Max.		OB3
4AJ-0	-O Cold K			1000			Voltage Regula	ator with s	starting Volt	tage at 135	Operating.	Volts 105,	Operating (urrent 5 Ma.	Min. 40 Ma	s. Max.		003
4AJ-0-0	+				****		Voltage Regul	ator with	starting Vol	tage at 180	, Operating	Volts 150,	Operating	urrent 5 Ma.	Min. 40 Mg	s. Max.		OD3
480-1-0	Cathode				1000		H-W Kect.	Ch. 4.	Voits Per	Flate, KM	7 Ma. N	18x., 40 Mg	Common And Control of the state	ut Current.				074
4R-1-0	-	fonic					F-W Rect.	300 A.C	Volts Per	Plate, RMS	90 Ma. N	fax. 30 Ma	Min. Outp	ut Current.				0746
+		1					F-W Rect.	300 A.C	Volts Per	Plate, R.M.	S. 110 Ma	Max. 30	Ma. Min. C	300 A.C. Volts Per Plate, R.M.S., 110 Ma, Max., 30 Ma, Min. Output Current.	1			0744
Gas Duodi. 4R-0-0		1	****	7 .7		2	F-W Rect.	300 A.C	. Volts Per	Plate, RMS	, 90 Ma. N	1ax. 30 Ma	Min. Outp	ut Current.				OZ4G
4D-0-0	Filament	-	0.25	8.1	3.1	04	Ampliffer	90	5.5		5.00		11,000	725	0.00			OIA
5AP-0-5	-5 Cathode	1.4	0.15			1	Detector	- 33	ave Cathode	Type Recti	Cathode Type Rectifier for H. F. Use	Use	000'01	300	0.0	100000		1 43
4M-0-4	-	-	90.0	.007m	5.0	11.0	R-F Amp.	135	3.0	67.5	2.2	6.0	1 Meg.	625				1A4P
4K-0-3	Filament	ot 5.0	90.0	.010m	5.0	11.0	R-F Amp.	135	3.0	67.5	010	0.7	350,000	625				1A4T
Pentode 6X-0-0	Filament	1.4	0.05	*****			Power Amp.	200	4.5	25.5	3.5	0.7	300,000	800		25,000	100	1A5GT
0.0.14	Filament	0 6	900	0.05	10.5	00	Converter	135	3.0	06	4.0	0.8	300,000	850	= (5,	25,000	115	144
			00.0	0.23		2.	Converse	180	3.0	67.5	1.5	2.0	500,000	300₽	00	180V. Max. 2.5 Ma.)	2.5 Ma.)	140
			0.05	0.5m		10.0	Converter	06	0.0	45	0.55	09.0	000'009	250▲	(G ₈ = 9(90V. Max. 1.2 Ma.)	-	1A7GT
Pentode 5BF-L-0	12	1.0	0.13	0.25m	2.80	4.2	R-F Amp.	150	1.5	150	6.8	8.0	120,000	1,100		: :		1AB5
Pentode 8CP-0-0	O Filament	t 1.25	040				Power Amp.	30 45 67.5	0.0.4	30 45 67.5	20.0	1.00.0	170,000	450 600 750		50,000 40,000 55,000	155	1ACS
Pentode 8CP-0-0	19		.040	600.	1.9	3.0	R-F Amp.	30 45 67.5	000	30 45 67.5	0.45	0.16	700,000	430 580 735				1AD5
	-O Filament	t 1.25		.008m	3.6	4.4	R-F Amp.	06	0	06	3.5	1.2	200,000	1,550			****	1 AE4
Pentode 6AR-0-1&5			0.025	m800.	3.8	7.6	R-F Amp.	67.5	00	67.5	1.65	0.0	2 Meg. 1.8 Meg.	925		:::		1AF4
Diode Pent. 6AU-0-0	0-0 Filament	1.4	0.025	0.2	2.5	4.3	Det. Amp.	67.5	00	67.5	1.1	0.25	2.3 Meg.	200				1AF5
Diode 97		_	0.65				H-W Rect.	Interchar	geable with	1X2B by	Removing C	urrent Limit	ing Resistor.					1AX2
						1.5* I	Telev. Rect.	14,000 A	14,000 A.C. Volts Per Plate, RMS, 2 Ma. Output Current.	er Plate, R!	MS, 2 Me.	Output Curr	ent.		1			1B3GT
Pentode 4M-0-4	4 Filament	£ 2.0	90.0	.007m	5.0*	11.0*	R-F Amp.	135	3.0	67.5	1.6	0.0	1.5 Meg. +	560		: :		184P
E		++	90.0	3.6	1.6	1.9	Det. Amp.	135	3.0		8.0		35,000		80			185
		+	0.10	0.34	7.0	7.5	Converter	06	0.0	45	1.5	1.3	350,000	350▲	(Ge = 90	90V., 1.6 Me.		1B7GT
Pentode 8AJ-U-1		•	0.10		:		Power Amp.	88	0.9	06	6.3	1.4	240,000	1,150		14,000	210	18861
Triode 5CF-0-0	O Filament	4.1	0.05	8.1	6.0	9.	Ampliffer	88	3.0		5.4.	:::	11,200 +		14.5			1C3
Pentode 6X-0-0			0.10				Power Amp.	83	7.0	83	7.5	9.1	110,000	1,500	165	000'8	200	1C5GT
Heptode 6L-0-0	130	t 2.0	0.12	0.3	10.0	10.0	Converter	135	3.0	67.5	1.3	20.0	000,000	300▲	500	135V. Mex. 180V. Mex.	-0	1C6
Heptode 7Z-0-0	Filament	1 2.0	0.12	0.26	10.01	14.0	Converter	135	3.0	67.5	E. T.	6.5	000,000	300₽		135V. Mex.	1.1 Ma.)	1076
Heptode 8CN-0-0	+			0.25m		4.0	Converter	30	0.0	30	0.32	0.75	300,000	100 €	5	Nex.	4.0 Ma.)	1C8
-	-	t 1.25		2.6*	*	1.0*	Amplifer	06	5.0	-	12.5			3,400	8.7		2000	1D3
Pentode 5Y-0-7	Filament			.007m		12.0*	R-F Amp.	135	3.0	67.5	010	0.0	1 Meg.	625				1D5GP
5R-0-4	Filament	t 2.0	90.0	.010m	4.4	10.8	R-F Amp.	135	3.0	-	010	0.7	350,000	625				1DSGT
7Z-0-0	Filament	1 2.0	90.0	0.25	10.5	0.6	Converter	135	3.0	67.5	4 00 1	100	400,000	2754	(Ga = 13	135V. Mex.	2.0 Ma.)	107G
de 8 A J.0.9	.9 Filament	14	100				Det. Amp.	180		67.5	1.5	2.0	27.000	395	11 10	BOV. D Max.	2.5 Ma.)	1D>
Periode					•	:	Power Amp.	67.5 67.5 67.5	2004.00	67.5	0 + - 6 8 6 0 + 6 8 6		300,000 300,000 200,000	450 650 875 875	1000	20,000	100	
								2	0.6	2	0.0	1.0	* 000'00X			12,000	200	

-Page 4-

AVERAGE CHARACTERISTICS TUBES-SYLVANIA

- To 100	Type Type	1E4G	1E5GP	5 1E7G		0 1F4		1F7G	1F7GV		A) 1G6GT	1H4G	m maximum Cathode Resistor			78-S		
thms Undis- torted	Stated Output Power Milli- Output watts			24,0004 575		16,000 310	13		40.)		(Each Triode Class A)					S-AP		7
	fication St. Factor Pc	14.5	:::			16,	Control of the contro	, a	Voltage	80.00	30 (Eac	6.00	Pentode Operation.		W C C C C C C C C C C C C C C C C C C C) 3		No.
	ductance	1,325	560	1,600	1504	1,700	1 61	650		825	675	0000	00 ohms.			\$ *		
	Resistance Ohms	11,000	1.5 Meg. +	300,000	400,000	800,000	1 Meg.	1 Meg.	ment.	10,700	45,000	10,300	Applied through 20,000 ohms. Conversion Transconductance. Triode Operation.			<i>y</i>		
Screen	Current Ma.		0.7	2.0	1.1	2.4	V. Thru 0.8	0.7	on Negative Filament.		C7 ::		A Conver			44 1	-3 line of the second s	S. C. A. C.
100			67.5 1.6	7.0 0	10		Suppl	04	ve the Other o	2.3	1.0#		Applied through 250,000 ohms. Per Tube or Section. Plate and Target Supply Voltage.			¥ ***	A A A	
	Grid Screen Volts Volts	3.0				4.5 135		1.5 67.5	es One Abo	0.0	000	9.0	ed through 2 be or Section nd Target Su				300	a a a
	49	060			67.5 0		*		Except Diode	90 6.0 2.3	The same	135)) ‡		
	Use	Ampliffer	R-F Amp.	Power Amp.		Power Amp.	R-F or I-F A-F Amp.	R-F or I-F	Same as 1F7G	Amplifier Power Amp	Power Amp.	Det. Amp.	Grid to Grid.			×		
(') (2) tances upt.			5.5 12.0	6.0 5.0			4.0 9.0	3.8* 9.5*					(3) Has special mechanical and/or life characteristics. With Average Power Input of 350 Mw. Girld to Grid. For two tubes with 40 volts RMS applied to each grid.			04	S.S.	
Note (') (') Capacitances in $\mu\mu$ f.		2.4	.007m	0.4			.007m	.01m				:	mechanical an ige Power Inpu			4-BU		A P
ter	92			1.25 0.24		2.0 0.12		8.0 0.06		9.0 0.19		2.0 0.06	Has special With Avera For two tub		3 02	4		
Emitter				Filament 2	-	Filament S		Filament 2	+		Filament 1	Filament 2				4-A-	The state of the s	A A D
	Basing Diag.	55-0-0		8C-0-0 8CN-0-0		5K-0-0 6X-0-0		7AD-0-7	7AF-0-7	0-0-SS	7AB-0-0	55-0-0	d with (*). signal grid to					
Construction				Duo. Pentode Heptode		Pentode	Duodi. Pent.	Duodi, Pent.	Duodi. Pent.	Pentode	Duotriode	Triode	(1) Values are given shielded unless marked with (*). (2) Converter tube capacilances given are signal grid to plate; RF Input, Mixer Output.	-		3.5		A A B B A F A B B B B B B B B B B B B B
	Bulb Size or Style	GT	SI-12	ST-12 T-3		ST-12 ST-12	ST-12	ST-12	ST-12	ST-14	GT	ST-12	e given shield tube capacita Mixer Outpul				(a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	
1	lype	1E4G	1ESGP	1E7G		1F5G	1F6	1F7G	1F7GV	1656	1G6GT	1H4G	(1) Values are (2) Converter RF Input,		3 1 2	OAS	2	**************************************

SYMBOLS FOR BASE DIAGRAMS: A—Anode; A1—Anode 1, A2—Anode 2, D1—Deflector 1, Dp—Diode Plate; F—Filament Center, G—Control Grid; Ga—Anode Grid; Ga—Modulator Grid; Go—Oscillator Grid; Ga—Anode Grid; Ga—Screen Grid; H—Heater, Hc—Heater Center, Hc—Heater Tap; IC—Internal Connection, J—Jumper, K—Cathode; NC—No Connection; P—Plate; Rc—Ray Control; S—Metal Shell; SA—Starter Anode; Su—Suppressor Grid; T—Target; XS—External Shield; D—Top Cap; ——≱Locating Pin.

Page 5-

S
3
-
H
S
•
-
Œ
1.1
ш
-
O
4
2
4
I
O
Ш
4
-
4
4
~
2
Ш
Ш
VE
VE
Ш
VE
VE
- AVE
- AVE
S-AVE
- AVE
ES-AVE
S-AVE
BES - AVE
ES-AVE
BES - AVE
BES - AVE
BES - AVE
TUBES - AVE
TUBES - AVE
BES - AVE
TUBES - AVE
IA TUBES - AVE
TUBES - AVE
NIA TUBES - AVE
ANIA TUBES - AVE
ANIA TUBES - AVE
VANIA TUBES - AVE
VANIA TUBES - AVE
LVANIA TUBES - AVE
LVANIA TUBES - AVE
VANIA TUBES - AVE

							ZoZ	e(1)(1)									1		Ohms	Undis-	
		Construction			Emitter		Capa	Capacitances in µµf.		:		degative		Plate	Screen	Plate			Load	Power	
200	Buth Size or Style	Cless	Besing Diag.	Type	Volts	Amps.	Cgp.	G.	Cout	Üŝe	Plate Voits	Colts	Screen	Current Ma.	Current Ma.	Resistance	Aicromhos	fication Factor	Stated Power Output	Output Milli- wafts	Туре
1H3GT		Diode Triode	-	Filament	1.4	0.05	1.1	0.35	4.0	Det. Amp.	06	0.0		0.15		240,000		65		*****	1H5GT
	57.12	Duodiode Iri.		Filament	2.0	90.0	3.6	1.6	1.9	Det. Amp.	135	3.0		8.0		35,000	575	08		****	1H6G
	ST.10	Diotriode	7 A B-0-0	Filament		0.04				Power Amp.	1.35,	T.35, TO.5	135	0.7	2,0	000,621		125	13,500	575	1156
	Ministere	Pentode	6AR-0-1&5	+	_	0.05	.008m	00,	7.5	R-F Amp.	06	0	67.5	- i	1.2	000'009	925		-		114
				-	-						06	0	06	4.5	2.0	350,000	-	:		****	
	Ministure	Heptode	7DC-0-0	Filament	1.4	0.05	0.36m	7.5	12.0	Converter	06	0	45	0.5	9.0	650,000		(Gs = 90	>		116
	Lock-in	Pentode	SAD-L-0	Filament		0.05	:	:		Power Amp.	82	4. 4 70 10	82	3.5	0.0	300,000	820		95,000	100	1LA4
	Lock-in	Heptode	7AK-L-0	Filament	1.4	0.05	0.4	7.5	8.0	Converter	06	0.0	45	0.55	9.0	750,000	-	(Ga = 90	>	2 Me.)	1LA6
	Lock-in	Pentode	5AD-L-0	Filament	1.4	0.05				Power Amp.	45	4.5	45	1.6	0.3	300,000	650	3		35	1LB4
					111						67.5	0.0	67.5	80.00	0.0	800,000			16,000	100	
	Lock-in	Heptode	8AX-L-0	Filament	1.4	0.05	0.1	3.8	8.0	Converter	06	0.0	67.5	0.40	2.2	2 Mea.			12,000	700	11 B6
	Lock-in		7AO-L-8	Filament	1.4	0.05	m700.	3.2	7.0	R-F Amp.	45	0.0	45	1.1	0.25	700,000					1LC5
	I och-in	Hentode	7AK-1-0	Filamont	1 4	0.05	800	0	M	Convertor	45	0.0	45	7.15	0.20	1.5 Meg.				4 14.1	41.04
- 0	and the same of th	2001			-	6.0	0.40	2.7	.,	Convene	90	0.0	35	0.75	0.73	650,000		(Ge = 45	V. Max., 1.4	4 Ma.)	1500
	Lock-in	Diode Pent.	8-7-X-49	Filament	4.4	0.05	0.18	3,2	0.9	Amplifier	90	0.0	45	0.55	0.12	750,000			: :		1LD5
	Lock-in	Triode	4AA-L-0	Filament	1.4	0.05	1.7	1.7	3.0	Amplifier	060	0.0		4.5	:	11,200		14.5	:	:	1LE3
	Lock-in	Pentode	7AO-L-8	Filament	1.4	0.05	m700.	3.2	7.0	R-F Amp.	45	0.0	45	1.5	0.45	350,000		2		: : :	1LG5
											88	1.5	90	3.7	40.0	1,000,000	-	: :	:::	: :	
		Diode Triode		Filament	1.4	0.05				Det. Amp.	06	0.0	-	0.15		240,000		65			1LH4
1LN3	Lock-in	Pentode	7AO-L-8	Filament	1.4	-	.007m	3.4	8.0	R-F Amp.	06	0.0		1.6	0.35	1.1 Meg.	800				1LN5
	5 5	Diode Pent	7-1-70 7AM-0-0	Filament	1.4	0.05	m/00.	2.8	10.0	Not Amp.	06	0.0		1.2 2.4	0.3	1.5 Meg.			05 000	100	1NSGT
			57-1-7	Filament		-	.007m	3.0	10.0	R-F Amp.	06	0.0		2.3	0.7	800,000	750		200107	3	1P5GT
105GT			6AF-0-0	Filament	1			*****		Power Amp.	06	4.5		9.5	1.3		2		8,000	270	1Q5GT
		Diode Pent.	8CO-0-0	Filament	1.25	0.04	0.085	1.8	4.2	Det. Amp.	30	0.0	30	0.33	0.00	500,000	330		:	:	106
	+	H. F. Diode	4AH-L-2	Cathode	1.4	.150			1	Detector	₹ 🗟	ave Cathode	Type Re	tifier for High	l labor	1-					1R4
	Miniature	Heptode	7AT-0-0	Filament	1.4	0.05	0.4m	7.0	12.0	Converter	45	0.0	45 67.5	1.7	1	1	\$ 235 ♠				1R5
	Miniature	Pentode	1AV-0-0	Filament	1.4	0.1		:		Power Amp.	45	4.5	45	3.8#	#8.0		-		8,000	65	154
	Miniature	Diodo Pont	6411.0.0	Filamont	1 4	0.05	0.0	00	40	Dat Amn	200	0.0	67.5	1.4#	# 4 . L	14			000'8	0/7	105
				Filament	1.25	070	7.0	2.4		Det. Amp.	30	000	30	0.33	0.1				: : : : :		156
											67.5	00	45 67.5	0.75	0.21			::	::	: :	
15A6GT	GT	Pentode	6BD-0-0	Filament	1.4	0.05	.01m	5.2	8.6	R-F Amp.	67.5	000	67.5	2.4	0.3			:::	: :	::	1SA6GT
	GT	Diode Pent.	6BE-0-0	Filament	1.4	0.05	0.25	3.2	3.0	Det. Amp.	200	000	67.5	1.45	0.38	1					1SB6GT
	Miniature	Pentode	6AR-0-185	Filament	1.4	0.05	.008m	3.8	7.5	R-F Amp.	45	0.0	45	1.9	0.7	1	700				114
	GT	Beam Amp.	0-0-X9	Filament	1.4	0.05	0.5	4.8	8.0	Power Amp.	06	0.0	67.0	6.5	1.4	1	1.150		14.000	170	115GI
			8DA-0-0	Filament	1.25	.040			:	Det. Amp.	30	00	30	0.33	1.0	500,000	330			:	176
		. 1									67.5	00	67.5	1.6	0.4	400,000					
2 4	-		6AR-0-185	Filament	1.4	0.05	0.008m	3.6	7.5	R-F Amp.	06	0	06	1.6	0.45	1.5 Meg.				****	104
4 2	Miniature	Heptode Pent.	7DC-0-0	Filament	4. 4	0.05	0.2	8.0	19.0	Converter	Characteristics	Istics Same	S	0.5	90	550 000	A040	(Ga =	1 5 V 0 0 5 1	42)	105
						2000				- College	06	00	45	0.55	0.55	000,009	275▲	= 85)	90 V., 1.1 Ma.)	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	001
	ST-12			Cathode	6.3	0.30				H-W Rect.	325 A.C.	Volts Per	Volts Per Plate, RMS,	45 Ma	Output Current. Cond	ent. Conden	ut to	ter.			17
	T-3	Pentode	8CP-0-0	Filament	1.25	0.04		: :	: : :	Power Amp.	Characteri	ristics Same	Characteristics Same as Type 1 AC5.	ddn	. Feak Inve	rse Voits = 1	,500, Cutput	It = 0.5 Ma.			1/2
2	Miniature			Fiiament	4.1	0.05	:	:		Power Amp.	62.5	20.00	62.5	- w.w.r	m & & &	300,000	875		20,000	1000	1W4
	T-3	Pentode	8CP-0-0	Filament	1.25	0.04	0.01m	2.3	3.5	R-F Amp.	30 8	0.00	30 8	0.42	0.16	4 000,007 4 000,007	1		12,000	2007	1W5
-	7.9·1	Diode	_	Filament	1.95	0.9				H.W Rect	[olovision	Service	RF or Flyh	Vinniy dae	Post Inves	3 1	5 KV Outnut	1 Ma			1 X 0
	T-61/2		07.0-1 etc	Filament		4.5			:	-	CIEVISIO	Television Service.	מניייייייייייייייייייייייייייייייייייי	ack Supply	AL TITLE TO THE	1		ייי יייי			1X0A
	Management of the latest devices in which the latest devices in the latest devices in which the latest devices in th	ĺ		Lindment		0.50			1		Televisio	Service.	Kr or Flyb	ack Supply	. Peak Inve	II	7.5 KV, C	thut = 1 me	1	-	WIN

TUBES - AVERAGE CHARACTERISTICS SYLVANIA

		172	2A3	2A4G	2A5	2A7	287	2B7S	2C21		2C52	m meximum Cathode Resistor.			5.5	(A)		99			97-1			Little Call
S Undis- torted Power		4	04 3,500							3,500			Ŕ		3	199	100		(K) (G) (S) (S) (S) (S) (S) (S) (S) (S) (S) (S			0	\$-6	Con Coullator Gaid.
Ohms Load For			3,000	Average Anode.					4 20,000	0		Pentode Operation. Plate to Plate.			5-8Z	-8		9-8₩	3 D		? (2)	9	\ \	Do-Diode Plate: F-Filament: Fc-Filament Center: G-Control Girld: Ga-Anode Grid: Ga-Modulate Grid.
-	Factor Factor		4.2			201			1,375 10.4	20.0	100	Per	70				100000000000000000000000000000000000000		S A N				7.6	Grand March
	ductance		5,250	de Amps. =	4 400	001,1			1,375	3,000	1,900	0,000 ohms.			5-AS			6-BE			La-	a a a	\ \	anda Gold.
Plate	Ohms	rrent.	800 I, Fixed Bias	Peak Anoc	04 000	000,19		1	00	009'9		Applied through 20,000 ohms. Conversion Transconductance. Triode Operation.	Land				3 -		5 de 1				8-DA	old. Gam
Screen	Ma.	Dut Current,	40.0 Per Tube, Push Pull, Fixed Bias	Instantaneous Forward or Inverse Anode Volts = 200 Peak Anode Amps. = 1.25 Current = 0.1 Amp. Max. Averaging Time = 45 Seconds. Cold Starting Time =				O DC Cate J. M.	, oc camo			□ Applie A Convers ** Triode				100		08-9	2] ()) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		S S S S S S S S S S S S S S S S S S S	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Control
Plate	Ma.	a. D.C. Out	60.0 40.0 Per Tu	Averaging Ti	66.	77.	7.	1		11.0	1.3	0 ohms.					9		F 5 2			1 <	9-8	Cantag. G
	Volts	late, 2.0 M		or Inverse	as Type 6F	as Type 64	as Type 6B	Dark Caked M.	eak Cathod		: :	ugh 250,00 section. get Supply	B		S-AD	3		6-B	-3 []	7.4				Fr -Filamen
Negative	Volts	7,800 Volts RMS Plate, 2.0 Ma. D.C. Output Current.	45.0	neous Forwa = 0.1 Ami	Characteristics Same as Type 6F6G.	Characteristics Same as Type 6A7.	Characteristics Same as Type 687,	NO N	In c	10.5	2.0	Applied through 250,000 ohms. Per Tube or Section. Plate and Target Supply Voltage.			4				66.6		5 (3)		9.0	Filamont.
10							-	-	250		250	* ***	13		4	(a)		- A-A			ON	S S S S S S S S S S S S S S S S S S S	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	de Diste. E.
		H-W Rect.	Class AB1	Relay Tube	Power Amp	Converter	Det. Amp.	Polav Tuha	Amplifier	Amplifier	Ampliffer	(3) Has special mechanical and/or life characteristics. §§ With Average Power Input of 320 Mw. Grid to Grid. † For two tubes with 40 volts RMS applied to each grid.							(a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c		50		7,8	J. D. Die
(3) (65)	Cin. Cout		0.00		17	8.5 9.0	Type 687			2.2 0.7	2.3* 0.75	or life chara of 320 Mw. RMS applie	12	101	94	- G		6-AU		NA.F	66			-Deflector
Note (¹) (²) Capacitances in $\mu\mu$ f.	Cgp.	: :	0.7	:		E	See Type				4	hanical and ower Input ith 40 volts					E	\ ~	99	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			8-BD	nde 9. D4.
	S.	1 12	2.50 10.0		7.1 0.80		0.80	0.65	0.0	1	0.30 1.3	special mech h Average F two tubes w			3	-0		6-AR		7-AK	Ha			A9An
Emitter	Volts	1.5	-	-	de 2.5	-	de 2.5	+	de 6.3	de 6.3	de 12.6		L		4-AM	un est			ال والا		E. C.	11111	8-AX	-Anode 1
	g. Type	+			Cathode		Cathode	-O Cathode		1 1	O Cathode	'). id to plate;				3		6-AF		A-F	3	3 3		A-Anode: A1-Anode 1; A2-Anode 9; D1-Deffector 1.
tion	Basing Diag.		-		Tri. 6G-0-0				+	4AM-0-0		arked with (are signal gri	A		= = =	9			99	100	100		7-00	S. A-
Construction	Class			Gas Triode	Pentode Duodiode Tri.	Heptode	Duodi. Pent.	Gas Triode	-	Triode	Duotriode	led unless m inces given a it.			HA-4			5-2		A-T			1	DIAGRAM
	Bulb Size or Style	Miniature	01-10	ST-12	ST-14	ST-12	ST-12	Miniature	ST-12	T-9	GT GT	given shield tube capacita Aixer Outpu				9		4			X.		0.7	OR BASE
Type	0 1	1Z8	ZA3	2A4G	2A5	2A7 2A7S	287	2C4	2C21	2C22	2C52	(1) Values are given shielded unless marked with (*). (2) Converter tube capacitances given are signal grid to plate; RF Input, Mixer Output.	B		TAAA	3		5-7	3	X-9				SYMBOLS FOR BASE DIAGRAMS.

-Page 7-

CHARACTERISTICS SYLVANIA TUBES - AVERAGE

1		Construction	-	Ē	Emitter		Š	Capacitances in µµf.		He	Plate	Negative		Plate	Screen	Plate		on- Ampli-		For	Power	Tyne
adkı	Bulb Size	Class	Basing Diag.	Type	Volts	Amps.	Ggb.	Cin.	Cout	5	Volts	Volts	Volts	Ma.	Ma.	Ohms	Micromhos				Milli- watts	
1000		Care Tahooda	OONat		, Y	111	*00	* P 6	1 6*	Rolav Tuho	400	100	Average C.	Average Cathode Current	= 100	May Ma A	Averaged over any	ver any 30 Sec	Inte		1	9091
	T.9	Flectron Ray	6R-0-0	-	2.5	0.80				Indicator	Charact	eristics Sam	Characteristics Same as Type 6E5	E5.								2E5
25/45	ST-12	Duodiode	5D-4-0		2.5	1.35	*****			Detector	The Tw	o Diode P.	lates each Di	raw Appro	The Two Diode Plates each Draw Approximately 40.0 Ma. with 50 Volts D.C. on the Plates	Ma. with 5	10 Volts D	.C. on the P	lates.			25/4S
2V3G	ST-12	Diode	4Y-0-0	Filament	2.5	5.0				H-W Rect.	6000 A	N.C. Voits	Per Plate, R.	MS, 2 Ma.	6000 A.C. Volts Per Plate, RMS, 2 Ma. Output Current.	1	Condenser Input to Filter.	to Filter.				2V3G
2W3GT	GT	Diode	4X-0-0	Filament	2.5	1.50				H-W Rect.	- 1	C. Volts P	er Plate, RN	15, 55 Ma.	Output Curre		Condenser Input to Filter.	to Filter.			5	2W3GT
2X2A (3)										Characteristics	0,	Same as Type 2X2									5	2X2A (3)
9X9/879	ST-12	Diode	4AB-0-0	Cathode	2.5	1.75				H-W Rect.	4500 4	1.C. Volts	Per Plate, R.	MS, 7.5 M	4500 A.C. Volts Per Plate, RMS, 7.5 Ma. Output Current.		Condenser Input to Filter	it to Filter.			-	2X2/879
070/624	ST.10	Diode	4R-0-0	-	9 5					H-W Rect.	350 A.	C. Volts P	er Plate, RN	15, 50 Ma.	350 A.C. Volts Per Plate, RMS, 50 Ma. Output Current.	ent.						2Z2/G84
5	7 K1/L	Diodo	ODT.0.1	+	2 4 5					H-W Roct	Televisi	Television Service.	Peak Inve	rse Volts =	Peak Inverse Volts = 18 KV. Peak Current	Current	= 80 Ma.	Average Current	11	1.5 Ma.		3 49
1	7.0-1	Pio de	40.00	+	2 1 5					H-W Roct	Toloviei	Tolovision Service		ree Volte =	= 30 KV Po	Poak Current	= 80 Ma	1	11	1 5 Ma		343
	Á-1	PIOOL	10000	-	2.0					Domes of the	4.25	7 8			90	00000	-	0	-	000	T	2 4 4
	Miniature	Pentode	788-0-0	Filament	4.8	0.20	0.35m	20 :	0.	Power Amp.	150	4.8	28	13.3	9 99	100,000	1,900		: :	8,000	7007	**
	Miniature	Duotriode	7RC-0-0	Filament	1.4	0.22	3.0	1.1	1.9	Ambliffer	06	2.5		3.7#		8,300	# 1,8(15			3A5
1 1				=	2.8	0.11					135	20.0		30.0	Push-Pull	0	Amb	er			2,000	
3A8GT	GT	Diode Triode	8AS-0-1	Filament	4.0	0.10	2.0	3.0	10.0	Tri. Amp.	060	0.0	00	0.5		200,000		325	:			3A8GT
	T.51%	Ream Amo	707	Filamont	9 50	0.165	0.16		7.6	VHF	150	75	135				-	00			1.250	384
	2/2-			-	1.25	0.330				Power Amp.						000				+		
385GT	EI GI	Beam Amp.	7AP-0-0	Filament	4.8	0.00	:::	: :	: :	Power Amp.	67.5	7.0	67.5	6.7	0.53	100,000		,500	1 :	2,000	180	385GT
	Lock-in	Duotriode	7BE-L-0	Filament	8.2	.110	2.6	1.4	2.6	Power Amp.	135	00		22.0	(Class AB2)	D F Domes	- 4	- 11	20 16	10	,500	387
-	15	D-4-d-	70000	Filament	4.1	040				Power Amn	00	00	00	6.0	14			- A	2 1110	8 000	940	3CSGT
3001	5	Pentode	0-0-1-0-1		10.4	0.05				Cone Cone	8	0.6	06	0.0	4					10,000	260	000
3C6/XXB	Lock-in	Duotriode	7BW-0-0	Filament	1.4	0.10	:		Sec. 1	Det. Amp.	06	00		4.5		11,200			4.5			3C6 XXB
					2.8	0.05			Sec. 1		88	00		7.0		11,200	1,300	-	14.5			
	Lock-in	Beam Amp.	6AA-L-0	Filament	8.8	.110	.30	7.5	- 1	Power Amp.	150	4.5	06	10.2	1,8	(Class A)	'	-	+	14,000	009	3D6
				-	4.4	.220			****	4	150	20.0	135	23.0	0.0	(Class C)	ž	ower Amp. at	20 30	000		37.6
	Miniature	Pentode	0-0-X89	Filament	4.	050.	:	:		Power Amp.	006	0.0	6.70	0.0	S IV	140,000		32	::	0000		35.5
		-			2.8	.025	:	:	:	Power Amp.	90.2	8.0	90.	V. V.	0.1.	120,000		000	::	8,000	175	
	Lock-in	Pentode	1CI-L-5	Filament	4.0	0.10	.007m	5.5	7.5	R-F Amp.	06	00	06	3.8	1.3	300,000		000				3E6
	Lock-in	Pentode	6BA-L-0	Filament	2.8	0.05				Power Amp.	06	0.6	88	0.6	8.7	110,000		00		0000'9	300	3LE4
				-	4.	0.10					2 40	0.7	200	10.0	2.0	20,000				0000		20154
	Lock-in	Beam Amp.	68A-L-0	Filament	2.8	0.05	:: 4	::	::	Power Amp.	86565	04.04.0 07.00.0	86585	. 0.0.8 0.0.0.0	5 5	000000000000000000000000000000000000000	- 8 8 8 8 8 8 8 8 8			000000	20000 00000 00000	3674
	Miniature	Pentode	7BA-0-0	Filament	4.4	0.10		:::	1	Power Amp.	882	0.4.4	900	9.57	2.1.5	120,000 0			411	0000		304
3Q5GT	GI	Beam Amp.	7AP-0-0	Filament	4.6	0.10			: :	Power Amp.	066	4.5	066	8.0	1.0	90,000		000	: :	8,000		3Q5GT
	Miniature	Pentode	7BA-0-0	Filament	4.0	0.10	.30	5.0	7.0	Power Amp.	06	7.0	67.5	7.4	4.1	100,000		75		0000'8		354
	Miniature	Pentode	0-0-X89	Filament	4.0	0.10				Power Amp.	Charact	Characteristics Same	as Iy	104.								374
4A6G	ST-12	Duotriode	8F-0-0	Filament	2.0	0.12				Power Amp.	88	1.5		1.1	7. 9	26,600		750	20	-		4A6G
	7.61%	Pentode	0-0-10	Filament	5.0	930	0.10	. 60	9.5	Class B. Amp.	150	15	139.5	40.0	7	dax, oignal				000'0		5A6
	7/1			-	2.5	.460				Class C. Amp.	150	24	150	40	11		-					
5AW4	T-12	Duodiode	5T-0-0		5.0	4.0	****			F-W Rect.	450 A.	C. Volts P	er Plate, RM	15, 250 Ma	350 A.C. Volts Per Plate, RMS, 250 Ma. Output Current with Cap.	ent with Car		Input to Filter. Peak Current	Current =	750 Ma.	Per Plate.	5AW4
5AX4GI	5	Duodiode	0-0-16		0.0	2.23				r-w nect.	500 A	C. Volts P	er Plate, R.	M.S., 150	500 A.C. Volts Per Plate, R.M.S., 150 Ma. D.C. Output Current.	tout Current	0 1	Choke Input to Filter.	. r. r.			0***
5AZ4	Lock-in	Duodiode	5T-L-0	-	5.0	2.0				F-W Rect.	Charact	eristics San	Characteristics Same as Type 5Y3GT	573GT.		-			-	-	1	SAZ4
5R4GY	ST-16	Duodiode	51-0-0	Filament	5.0	2.0				F-W Kect.	950 %	olts RMS F	er Plate, 17	5 Ma. D-C	950 Volts RMS Per Plate, 130 Ma. D-C Output, Condenser input to Filter. 950 Volts RMS Per Plate, 175 Ma. D-C Output, Choke Input to Filter.	denser inpu	Filter.				1	2K4G7
	Metal	Duodiode	5T-0-0	Filament	5.0	2.0		:		Rectifier	450 A.	C. Volts F	er Plate, RA	45, 225 M	a. Output Cur	rent. Cond	lenser Inpu	t to Filter.				514
ELIAC.	CT.16	Dundinde	5T-0-0	Filamont	5.0	3.00			1	F-W Rect.	450 A	C. Volts P	er Plate, RA	45, 225 M.	a. Output Cur	rent. Cond	enser Inou	t to Filter.		-		5046
5114GA	T-11	Duodiode	5T-0-0	-	5.0	3.0				F-W Rect.	450 A.	C. Volts P.	er Plate, RM	S, 250 Ma	. Output Curr	ent with Cap	. Input to	Filter, Peak	Current =	900 Ma. Per Plate, 5U4GA	Per Plate.	5U4GA
5U4GB	T-12	Duodiode	5T-0-0		5.0	3.0	****			F-W Rect.	450 A.	C. Volts P	er Plate, RM	IS, 275 Ma	450 A.C. Volts Per Plate, RMS, 275 Ma. Output Current with Cap.	ent with Cap	5. Input to Filter.	Filter. Peak	Peak Current =	1 Amp. F	Per Plate 5U4GB	5U4GB
5U4WG (3)	T-19	Duodiode	5T.0.0	-	20	3.00				F-W Rect.	Charact	eristics San	te as Type 5	.04G.	Characteristics Same as Type 5U4G.							5U4WG (3)
1	71.1	30000	-2		2		The same of the sa			4 1777	-	1 11 11		1 000		-	-			The same of the same of the same of	-	4.1.4

CHARACTERISTICS AVERAGE ES m コト YLVANIA S

	Type	5W4 5W4GT	5X3	5X4G	5Y3GT	5Y4G	5Z3	524		6A3	6A4/LA	6A5G	646	6A7, 6A7S	6A8G M*)6A8GT	m maximum Cathode Resistor				2-0				7-BC				7.
Undis- torted Power	Outpu Milli- watts								-	15,000	-		10,000 Driver)		40	-		(e)	Te Te			100					3 () () () () () () () () () () () () () () (Y
Coad			liter.						1	3,000,8	9,500		10,000°1		= 100V., 2.0 Ma.)	Pentode Operation. Plate to Plate. Approximate.			S = 1	2-T		3		7-88				10-6
Ampli-	fication	Iter.	nput to F	Iter.	lter.		Iter.			4.x	150	4.2	20 20		(Ga = 1	Plat Ap						N N				A.	2 =	Y
-	Micromhos	Condenser Input to Filter.	Choke or Condenser Input to Filter. Choke or Condenser Input to Filter.	Condenser Input to Filter.	Choke Input to Filter.		Condenser Input to Filter.		Condenser Input to Filter	(sesistor 850 Ohms)	2,100	98	Zero Signal		3604					5-D	3			7-8A				1-8 8-L
	Current Resistance Ma. Ohms	Output Current. Con							- 8	(Push Pull, Fixed Bias) (Push Pull, Self Bias Resistor 8	3.9 52,600	40.0 Per Tube, Push Pull, Fixed Bi	E, Class B Operation, 11,300	Except Capacitances,	1.3 600,000	pplica			33	9. 9.				7-8				8-AS
			45, 110 Ma. O. MS, 30 Ma. O.	4S, 225 Ma. O	45, 125 Ma. O	Y3GT.	45, 225 Ma. O	Z4GT.	AS, 125 Ma. O	40.0#	13.0	60.0 40.0 Per Tub	17.5 Per Plate, Class B 6.0 7.0	6A8G, Except (4			7		9		7
	s Volts	Volts Per Plate, RMS, 110 Ma.	Voits Per Plate, RMS, 110 Ma. Volts Per Plate, RMS, 30 Ma.	450 A.C. Volts Per Plate, RMS, 225 Ma. Output Current.	350 A.C. Volts Per Plate, RMS, 125 Ma. Output Current. 500 A.C. Volts Per Plate, RMS, 125 Ma. Output Current.	Characteristics Same as Type 5Y3GT	450 A.C. Volts Per Plate, RMS, 225 Ma. Output Current.	Characteristics Same as Type 5Z4GT.	Its Per Plate, RA		135	*****		ame as Type	100	through or Se				4-4	1			7.A		-3		8. A. A.
-	Volts Volts	350 A.C. Vo	400 A.C. Vol 1275 A.C. V	450 A.C. Vol	350 A.C. Vol 500 A.C. Vo	Characteristics	450 A.C. Vo	Characteristics	350 A.C. Vol	325 68.0	135	250 45.0 325 68.0	300 250 250 5.0 5.0	Characteristics	100 1.5	# 34.00				**		OIC		5 (6	(A)	25.
	os O	F-W Rect.		F-W Rect.	F. W Rect.	F-W Rect.	F-W Rect.	F.W Rect.	Power Amp	ones Camp.	Power Amp.	Power Amp. P.P. AB1 Amp.	Power Amp. Driver Driver	Converter	Converter	eristics. irid to Grid. to each grid.		10			E.	9		7		5	(A)	4
(2) f.	Cin. Cout				:				0 0 2	2		:			5 12.0	of 320 Mw. G RMS applied				Q-4				8.9 8.8		3		0.7
Note (¹) (²) Capacitances in µµf.			:					:	7					8.5		wer Input					_	13				(5)		
	Amps. Cgp.	0	2.0	3.00	2.00	2.00	3.0	2.00	1 00 140		0.30	1.25	0.80	0.30 0.3	0.30 .26	(3) Has special mechanical and/or life characteristics. With Average Power Input of 320 Mw. Girld to Crid. The For two tubes with 40 volts RMS applied to each grid				4-C				×8-9	(e			7.
Emitter	Volts	-	-	5.0			-	3.0	-	-	6.3	6.3	6.3	6.3	-	(E)%##										(0)	Tel Tel	
	Type	Filament	Filament	Filament	Filament	Filament	Filament	Cathode	Cathode		Filament	Cathode	Cathode	Cathode	Cathode	to plate,				8-4	60			6-8A		600		7-BW
	Basing Diag.	5T-1-0 5T-0-0	4C-0-0	50-0-0	5T-0-0	50-0-0	4C-0-0	5L-1-0	5L-0-0	2-2-2+	5B-0-0	6T-0-0	78-0-0	7C-0-0 8A-1-0	8A-0-0 8A-1-0	signal grid (a (e)			The state of the s					33	F-1	7
Construction	Class	Duodiode	Duodiode	Duodiode	Duodiode	Duodiode	Duodiode	Duodiode	Duodiode	2001	Pentode	Triode	Duotriode	Heptode	Heptode	ded unless mark ances given are at.				4-AC	£C			6-AA		- = × [7.8×
4	Bulb Size or Style	Metal	ST-14	ST-16	GT	ST-14	ST-16	Metal	CT.16	0	ST-14	ST-16	ST-14	ST-12 Metal	ST-12 GT	given shield the capacity lixer Outpu		(F)				9	N P			\(\frac{1}{2} \)		
	lype	5W4 5W4GT	5X3	5×4G	573GT	574G	5Z3	524	52461	200	6A4/LA	6A5G	6A6	6A7, 6A7S 6A8	6A8G 6A8GT	(1) Values are given shielded unless marked with (°). (2) Converter tube capacitances given are signal grid RF Input, Mixer Output.	•			4-AB	40			2.1		3		78.

SYMBOLS FOR BASE DIAGRAMS: A-Anode 1, A2-Anode 2, D1-Deffector 1, Dp-Diode Plate; F-Filament, Fc-Filament Center, G-Control Grid, Ga-Anode Grid, Gm-Modulator Grid, Go-Oscillator Grid, Gs-Screen Grid, H-Heater Center, HC-Heater Center, HI-Heater Jap, IC-Internal Connection, J-Jumper, K-Cathode, NC-No Connection, P-Plate, Rc-Ray Control, S-Metal Shell, SA-Starter Anode, Su-Suppressor Grid, I-Target, XS-External Shield, Grid, Gap, -->-Locating Pin.

CHARACTERISTICS AVERAGE BES J L SYLVANIA

0000		lype	4 4 6 4	6ABS/6NS	6AB6G	6AR7	6AC5GT	AACAGT	OACOGI	6AC7	6AD4	6AD6G	44076	Diam's	6AE5GT	Dogwo	6AE7GT	AAEA	SAFEG	6AF6G	6AG5		6AG7	6AH5G	6AH6	6AH7GT	6A14	6AJ5	6AK4	6AK5	6AK6	6AK7	6ALS	6AL7GT	6AM4	6AM5	6AM6	THE STATE OF THE S	AANA	6AN6	6AN7	8AN8	6AQ5	6AQ6	6A07GT	6AR5
Undis-	Power	William S	CK DE		3 500	20015	3,700	8,000	3,600	0 Ohms)	= 820 Ohms)			3,200		: : :	ms Load	raralle!)			= 100 Ohms)	Ohms)	3,000	10,800	Ohms)		-	270 Ohms)		= 200 Ohms) = 330 Ohms)	1,100	+ +			· · · · ·	1,400	****		1 300	+			4,500	-		3.6
Ohms	for	Power		low.)	8 000		7,000	10,000	3,500		(Rk = 82)	w.)	w.)	7,000			with 10,000 Ohms Load	(Sections in		3	3 K	(Rk = 20	10,000	4,200	900			(Rk = 270)	1 .	(Rk = 200 (Rk = 330	10,000	10,000	Plate Supply Impedance	1.0 MM. Per Volt (App.)		16,000			9 500	2001		****	5,000	0000		7,000
	-	Factor	2.2	O for 0° Shadow.)		3.500			54	6,750 0	0,00	135° Shado	r 135° Shadow.)		4.2	33			7.4	S .00	ODBUG OO		a	,	40		42		20	1,700	3,300		Plate Supp	O MM. Per	85		: : : : :	70	2		Ma.	19		107	70	
	Transcon-	Micromhos	5 500	900	1.800	5,000	3,400 ynamic Coup		3,000	000'6	2,000	0	50 Volts for	2,500	1,200	950	3,000 14 64. Output 9.5 Watts	0.4 Ma.	1.500	ro Volts for	4,750	2,000	11,000	5,200	9,000		10,000	2,500	3,800	5,000	2,300	11,000	300 Ohms Min. Effective	11		2,600	7,000	July.)	8.000		ns, 16 = 5.1 Ma. ns, 16 = 4.8 Ma.	3,300	4,100	1,150	1,600	2,300
	Plate	Ohms			40.000	100,000	(Class A1, One Tube, Dynamic Coup	Section)	180,000	1.0 Meg. 4	95,000			\$ 000'08	3,500	3,500	- 11	Current + = 0.		Approx. Ze	300,000	000,008	130,000	33,000	3,600		4,200 \$	100,000	5,300	340,000	200,000	130,000	300 Ohms	-6 (App.). Deflection Sens	8,700 +	130,000	0.6 Meg. 7,0	Condition C	12.500 0		22,000 Ohms, Ib = 47,000 Ohms, Ib = 100,000	5,750 +	52,000	61,000	44,000	65,000
	Screen	Ma.		. Target Current 9.0 Me.,		3.2	(Class A1,	(Input	(Output) 180,0	2.5		For 0° Shadow,	or 0° Shadow	6.5			e., 6AC5GT Plate Ma.	DC Grid Co		for 0° Shadow, Approx. Zero Volts for 1	1.6		0.7	2.5	2.5			0.1		5000	2.5	7.0	Output Current.	11		2.4	2.7		12.0	ut Per Plate.	Grid Res. =		50.00			5.7
	Plate	Ma	10	Plate Resistor 0.25 Meg.,	5.0			7.0	45.0	10.0	0.0	OX.	Approx.	34.0	0.7	0.4.0 0.8.0	10.0 250 V. 10 M	22	7.0	. 60	5	7.0	30.0	54	10,10	18AH7GT.	16	10.0	9.5	7.5	15.0		No.	Grid Voltage for Fluorescent C.O.	10	16	2		35.0	a. D-C Outp	250 Applied through 33,000 Ohms. Grid Res. 250 Applied through 33,000 Ohms. Grid Res. 950 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	13.0	45	0.8	2.3	34
		Volts		late Resisto	Input Tri.	200	n 76 Driver)			150		Volts =	Volts =	250		::	6AC5GT = 5			Volts =	100	150	130	250	150	as Type	00	300		120	180	150	voits rer riste, RMS, y Ma.	tage for Flu		250	150	e 10 Volts	120	Plate, 8 M	hrough 33, hrough 33,	150	250			250
	Negative	Volts	2.0	(Series P	0	3.0	(Bias from	0.0	0.0	Cali	2.0		25.0	16.5	1.5	35.0	250 13.5 (Driver for P.P. 6A Bias Developed in	4-	18.0	356 (Ray Control	Self	Self	23	18	Self	Characteristics Same	- 88	Self	8089	::	0.6			Grid Vol	100	13.5	120 =	late Voltag	0.9	s RMS Per	Applied Applied	6.0	12.5	1.0	2.0	16.5
	Plate	Volts	250	1358	250	300	250	180	180	3000	250	1008 (Ray	250	250	(250	2500	250 (Driver Bias De	100	180	1356 (1	100	250	250	350	150	Characte	125	300	200	150	180	300	Characteri	315%	200	250	200			75 Volt	8220 8220 8200	200	250	100	250	250
	Use		R-F Amp.	Indicator	Power Amp.	Amplifier	Power Amp.	Power Amp.	A	Amplifier	Amplifier	Indicator	Tri. Amp.	Pent. Amp.	Remote	Sharp Cut-Off	Amplifier	UHF Osc.	Amplifier	Indicator	R-F Amp.	A maritia	Deff. Amp.	Amplifier	Pent. Amp. Tri. Amp.	Ampliffer	UHF Amp.	R-F Amp.	UHF Amp.	R-F Amp.	Power Amp.	Power Amp.	Power Amp.	Indicator	UHF Amp.	Power Amp.	Amplifier	UHF Osc. Mix	Power Amp.	Rectifier	Converter	Tri. Amp.	Power Amp.	Det. Amp.	Det. Amp.	Power Amp.
		Cout	1.4		::	5.0			0	0.0	3.9*						1.8	0.45			2.3	7.5	1.7		3.6	:	. 0		2.2	2.85	*	7.5	-		16	+	3.4	0.25	-		2.5	0.27*	0	1.5	1.5*	
Note (¹) (²)	in uuf.	Cin.	2.4			8.0	:		0	100	4.1*				: : :		3.0	2.5	No.		6.1	130	7.0		10		40	2	2.2	3.9	3.6*	13.0		2	4.6	100	0.9	2.9	0.6		20	7.0*	7.6	1.7	2.3*	***
ž		Cgp.	1.5			.015m		::	1 1 1 1	mc10.	3.3*						2.5#	1.9*		:	0.025m	8	4.4		0.02m		000	70.0	1.3	10.	0.12*	90.0		0000		0.01	0.01	1.7*	.075		0.1	1.5* .04m*	0.35	1.8	2.8	:
		Amps.		0.15	0.50	0.45	0.40	1.1	0.48	0.45	0.3	0.15	0.85	0 30	0.15		0.50	0.225	0.30	0,15	0.30	0.65	0.75	6.0	0.45	0.30	0.225	0.45	0.125	0.175	0.15	0.65	6.0	0.15	0.225	0.3	0.45	0.225	0.45	0.20	0.23	0.45	0.45	0.15	0.30	0.40
Emitter		Volts	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.0	6.3	6.3	6.3	63	6.3		6.3	6.3	6.3	6.3	6.3	63	6.3	6.3		6.3		6.3		6.3	6.3	6.3	6.3			6.3	6.3			6.3		6.3	6.3	6.3	6.3	
		Type	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathoda	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode		Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode
		Basing Diag.	5CE-0-2	6R-0-0	1AU-0-0	8N-1-1	0-0-0-0	7W-0-0	- Na	8DK-0-0	0-0-09	1AG-0-0	8AY-0-0	0-0-09	7AH-0-0		7AX-0-0	7DK	0-0-09	7AG-0-0	7BD-0-2&7	8Y-1-3				0-0	7BD-0-0			78D-0-2&7		87-1-3 6RT-0-6		8CH-0-0	0	-		7DK			20-0-3	9DA (7BZ-0-0	781-0-0	8CK-0-0	
Construction		Class	Triode	Electron Ray	Duotriode	Pentode	Triode	Duotriode	Pantode	Triode	Triode	Electron Ray	Tri. Pentode	Triode	Quo Plate	Triode	Duotriode	Triode	Triode	Twin Elec. Ray	Pentode	Pentode	Triode	Beam Amp.	Pentode	Duotriode	Pentode	I		Pentode		Pentode		A N		Pentode	i.	Triode			III. Hexode	Tri. Pentode	Beam Amp.	Duodiode Tri.	1.0	Pentode
		Bulb Size or Style	ure		SI-12	Metal	6-I	GT	Motel	T-3	ST-12, GT		ST-14	GI	ST-12		GT	T-51/2	-	6-1	Miniature	Metal		-	Miniature	15	Miniature	Metal	T-3	Miniature	Miniature	Miniature	-		1-0/2	Miniature		T-51/2	Miniature	Miniature Q	-	T-61/2 I	Miniature B	Miniature Du		Miniature
	Type		6AB4	6AB5/6N5	OAROG	6AB7	6AC5GT	6AC6GT	6AC7	6AD4	6AD5G, GT	6AD6G	6AD7G	6AF5GT	6AE6G		6AE7GT	6AF4	6AF5G	6AF6G	6AG5	6AG7	6AH4GT	6AH5G	одно .	6AH7GI	6AJ5	6AJ7	6AK4	0 AK3	6AK6	6ALS	6AL6G	6AL7GT	AAMA	6AM6	6AM8	6AN4	6AN5	6AN6	NY O	6AN8	6AQ5	6AQ6	6AQ7GT	6AR5

Œ ш RACT 4 I C Ш G 4 9 Ш > 4 S Ш 8 4 Z 4 > S

	Type	6AR6		6AS7GT		6AU4GT	6AU3G1	6AU6	6AV5GT	m maximum Cathode Resistor			DAY.	3 3	7-128	3 =	3	
Undis- torted Power	Milli- watts	: : :	2,200	(Rk = 250 Ohms)							E S		/20	3				
Ohms Load for			4,500				= 100 Ma.	* * * *	= 100 Ma.	Pentode Operation. Plate to Plate. Approximate.			¥		7-50		Z-8	
	Factor	113 95 6		01	07		e Current tts.		e Current atts.	++=-	55		(5)	3				
	Micromhos	5,400 4,300 6,000	5,600	7,000	1,300	Max.	tion = 2.5 Wa	3,900 4,450 900 900	imum D-C Plat ition = 2.5 W.	Applied through 20,000 ohms. Conversion Transconductance. Triode Operation.					J-CM		8-EL	
Plate	Ohms	21,000 22,000 1,000		280	54,000	= 175 Ma. Max.	roits, Max	600,000 2.5 Meg.	Volts. Max	d through Sion Transco			/Z		\		<u>i</u>	
Screen	Ma.	0.4	2.0	3	3.0	Plate Current	Maximum Plate Dissipation = 10 Watts. Maximum Screen Dissipation = 2.5 Watts.	000	Maximum Peak Positive Pulse Plate Voltage = 5,000 Volts. Maximum D-C Plate C. Maximum Maximum Basipation = 2.5 Wetts. Maximum Basipation = 2.5 Wetts. 25.800 2.1 75.0 5.800	A Conver		3 3			7-87		8-DK	
Plate	Ma.	77 58 90	35	125	0 T	Aax. D.C.	10 Watts.	9.7.0	Plate Vol = 11 Watts 55	000 ohms.		3		à a			=)=\ ×	
		300	110	2		Volts Abs. A	ssitive ruise issipation =	185	ositive Pulse	Applied through 250,000 ohms. Per Tube or Section. Plate and Target Supply Voltage.		(<))) 5-			7-81		3 3 3 3 3 3 3 3 3 3	
Negative	Volts	22.5 36.0 12.5	8.5	Self	3.0	= 4,500 \	um Plate D	000	um Peak P um Plate [Applied the oper Tube o			/Z	3 =	\	ă a	À	The state of the s
2	Volts				100			250 250		7		(C)) y			7-BK		4) S	
=	200	Power Amp. Tri. Amp.	Power Amp	Power Amp.	Det. Amp.	T.V. Damper	Horiz. Amp	R-F Amp.	Horiz, Amp. Class A1 Amp.	racteristics. v. Grid to Grid. ied to each grid.			Ŕ	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			7	
	Court	7.0*	6.2*		* 1.	*0.5		2.0*	:	1 4	10.01	1 1 1 1 1 1 1 1 1 1			7-8J		3 3 3	
Note (¹) (²) Capacitances in µµf.	Ċ.	11.0*	12.0*	:	%.3*	44 2*		* 10 10 	:	al and or Input of			(2)					A CONTRACTOR OF THE CONTRACTOR
Z	35		* 0.6*	,	2.1*		-	.0035m	:	Has special mechanical and/or life char With Average Power Input of 320 Mw For two tubes with 40 volts RMS applie		Se de la constant de			7-BD		8-8D	
ie.	22	3 1.20	3 0.8			3 1.8		0.30 E	6.3 1.2	Has spe With A	10	53	V.		/		7	
Emitter		Cathode 6.3	Cathode 6.3	Cathode 6.3		Cathode 6.3		Cathode 6.3	Cathode 6	€%±		e.Ap			- A×		8-AV	
				8BD-0-0		4CG-0-0 Ca		7BK-0-2 Ca	6CK-0-0	th (*). I grid to plat					7.		**	
Construction			Beam Amp. 7C		wodiode Tri. 7B	Diode 4C		Pentode 78k	Pentode 6CI	unless marked wi es given are signa		6. AM			1-AU		**	
	Bulb Size or Style		Miniature B	GT	945	1.9	5	Miniature	GI	en shielded capacitance r Output.								
6	Abe		6ASS M	GT		6AU4GT	5	90A9	6AV5GT	(1) Values are given shielded unless marked with (*), (2) Converter tube capacitances given are signal grid to plate, RF Input, Mixer Output.		S.C.			J-AH		Ş.	

SYMBOLS FOR BASE DIAGRAMS: A—Anode 1, A2—Anode 2, D1—Defector 1, Dp—Diode Plate, F—Filament, Fc—Filament Center, G—Control Grid, Ga—Anode Grid, Gm—Modulator Grid, Go—Oscillator Grid, Ga—Quadrature Grid, Gs—Screen Grid, H—Heater, Hc—Heater Canter, Ht—Heater Tap; IC—Internal Connection, I—Jumper, K—Cathode; NC—No Connection; P—Plate, Rc—Ray Control; S—Metal Shell; SA—Starter Anode; Sa—Seppressor Grid, I—Target, XS—External Shield, II—Top Cap; ————Locating Pin.

S	
65	
ACTERISTICS	
ales established	
10	
G)	
-	
02	
Ш	
-	
C	
-	
4	
0	
T	
T	
CHAR	
G E	
(5)	ı
AVERA	
4	ľ
04	
8 - 8	i
ш	i
>	I
	ı
Q	l
	ı
U)	
Ш	
20	
<u>M</u>	
つ ト	
_	l
-	
A	
Z	1
	1
P	
>	-
	1
>	
S	

	Construction			Ferither		Note)(2)											Chms		
		c	ш	Mitter		Capacitances	ill f			Ž	e > i de o				Dista			Load	torted	
Bulb Sixe	3	Basing			-		1		Use	Plate Volts	Grid Scr Volts V	Screen Volts	Current Ma.	Current Ma.	Resistance Ohms	ductance	fication Factor	Stated	Output Milli-	Type
Miniature	Duodiode Tri.	1	Cathode	-	0.30 g	2.1	2.3 0.0	O.9 Det.	Amp.	#	8.0		1.9		62.500		100	Output	watts	40.04
		-+		-	+			+		100	1.0		0.5		80,000	1,250	100		: :	0 > 0 0
	Duodiode Iri.	8CO-1-0	Cathode	6.3	1.2			Det.	Amp.	100	4 000 Volte	New Y	D.C Plate Current	10 t 10 t	Man Man	1,200				6AW7GT
GT	Duodiode	0-0-59	Cathode		1.2	1	1	F-V	Rect.	50 A.C.	Volts Per Pl	ste, R.M.	5., 125 Ma.	D.C. Outp	out. Conden	350 A.C. Volts Per Plate, R.M.S., 125 Ma. D.C. Output. Condenser Input to Filter.	ilter.			6AX5GT
ST-14	Duodiode	70-0-0	Cathode	+	2.5			F.V	F-W Rect. 3	350 A.C.	Volts Per Plate, R.M.S., 123 Ma.	ate, R.M.	5. 250 Ma	Output	Condenser Input to Filter	nput to Filter		The second secon		SAVAA
16	Triode	58-0-0	Filament	1	.00 16.0		7.0 5.	O Powe	1	haracterist	Characteristics Same as Type 6A3	Type 6A								6A A O O
	Duotriode	6AS-0-0	Cathode	6.3						haracterist	Characteristics Same as Type 6N6G.	Type 6N	SG.							685
1 1	Duodiode Tri.	1V-0-0	Cathode					.8 Det		250	2.0		6.0		91,000	1,100	100			686G
	Duodi, Pent.	7D-0-6 7D-6-6	Cathode			.007	0			100	0.000	100	8 4 0	7.0	300,000 1 Meg. 800,000	950 1,000	: : :	: : ;	:::	687 687S
	-		7 7	-	+	+	+	\dagger	+	250	4.5	50.0	0.65							
ST-12	Duodi. Pent.	8E-0-8	Cathode	6.3	0.30	.01m	3.6 9.5	+	Det. Amp. C	Characteristics Same	tics Same as	as Type 687, as Type 687.	Except	Capacitances.						688 688G
1.3	Pentode	8DY-0-0	Cathode	\top	1	065	+	+	+	100	Solf 16	100	15.	0 0	175,000	0 150			070 04-11	688GT
Miniature	Pentode	7BK-0-2	Cathode	6.3	0.30	2m *	5.5* 5.	5.0* R-F	Amp.	-			10.8	-	250,000 ¢	4,300		1 11 11	68 Ohms)	68A6
T-61/2	Heptode	8CT-0-688	Cathode	6.3	0.3	.19m	9.5	.3 Co	Converter 1			-	9.0	10.2	500,000	9004		١.	(SIIII)	6BA7
Miniature	Pentode	7BD-0-2&7	Cathode	6.3	0.30	0.02	6.6	.1 Tri.	Amp.				0.04.87	44-	000000000000000000000000000000000000000	4040K	044	**************************************	820 Ohms) 180 Ohms) 100 Ohms)	6BC5
T-61/2	Triple Diode	+	Cathode	+-			\leftarrow		+=+	High Perve	High Perveance Diode							Yun Tun	>	6BC7
71. GT	Beam Amp.	8F0 6CK-0-0	Cathode	6.3	0.00		3.8.	O.O.A.m. Hi V	Hi Volt, Keg. 2 Horiz, Amp.	Maximum	20,000 Max. D.C. Plate Volts. 125 May Maximum Peak Positive Pulse Plate Volt Maximum Plate Dissipation = 10 Watts		late Voltage	D.C. Grid	Volts. 1.5 N Volts. Max	125 Max. D.C. Grid Volts. 1.5 Ma. Max. D.C. Plate Plate Voltage = 4,000 Volts. Maximum D.C. Cathode Watte Maximum Green Olls. Maximum 3.0 Watte	Plate Current, sthode Current =	Cathode Current = 100 Ma.		6BD4 6BD5GT
Miniature	Pentode	7BK-0-2	Cathode	6.3	0.30 0.	0.004	4.3 5.	.0 R-F	R-F Amp. 2	250	3.0	100	9.0	3.5	700,000	2,000			:	6BD6
T-61/2	Duodiode Tri.		Cathode		Н		-		Det. Amp. 2		Ŀ		1.0		58,000	1,200	70			6BD7
Miniature		7CH-0-0	Cathode	6.3	0.30 0.	0.30m* 7	7.2* 8.(8.6* Cor		100	1.5 10	100	3.0	7.3	500,000 +	455 A 475 A	(Osc. Grid (Osc. Grid	(Osc. Grid Res. = 20,000 Ohms) (Osc. Grid Current 0.5 Ma.)	00 Ohms)	6BE6
Miniature	Miniature Pentode	78Z-0-0	Cathode		1.2 7.		9				Self	2	0			4	6.7	(Rk = 1,2	(Rk = 1,200 Ohms)	6BF5
T-3	Duotriode		Cathode	6.3			2.0	.6 R-F		-	Self		8.0		7,000 \$	4,800	35	10,000 300 (Rk = 100 Ohms)	300 00 Ohms)	6BF6 6BF7
T-3	Duotriode	8DG-0-0	Cathode	6.3	0.3	1.5	N	+	+	100	-		8.0		7,300 ♦			Cout Sec. 1 =	= 1.6 Harf	68F7A
ST-16	Beam Amp.	581-0-0	Cathode		0.90	*	9	5* Horiz		Maximum P	Peak Positive Plate	Plate Vo	11 3	Soo Volts.	6,600 Volts. Maximum D.C.			- 1		6BG6G
1.3	Duotriode	8DG-0-0	Cathode	6.3 0.	0.30 1.	10,10	2.0 1.0	6 R-F /	Amp.#	100	Self Self			avilla Science	7,000 \$	4,800	35	(Rk = 100	O Ohms)	6BG7
Miniature	Pentode	7CM-0-7	Cathode	6.3 0.	0.15 0.0		4	_	Amp.	-	-	-	3.6	-	0.7 Meg. 4		:		:	6ВН6
T-51/2	Pentode	9СН	Cathode	1					+		-	+	3.5	+	40,000	-	450	7,000	4,000	68.15
Miniature	Pentode	7CM-0-7	Cathode	6.3 0.	0.15	.0035m* 4	4.5* 5.0	0* R-F	R-F Amp. 2	250	1.0	100	9.6	m m	1.3 Meg.	3,600	:	:		6816
	Triple Diode		Cathode			:				Section		ch Sec	o jo		200/201	2000				6837
T-6 1/2	Beam Amp.		Cathode	6.3	+	0.6	N.	O Powe	ć	-	+	250 3	35	3.5	0.1 Meg. ¢	8,500		6,500	3,500	6BK5
4	Duodiode Tri.		Cathode	-		•	:	Det.			2.0	: :	1.2	: :	80,000	1,250	90	::	: :	6BK6
T-6½	Duotriode	6-0-F	Cathode	6.3	0.45 1.	o:	3.0		Amp.	150 12	120		0.6	* * * * * * * * * * * * * * * * * * * *	6,100	6,100	37			6BK7
I-61/2	Duotriode	9AJ-0-9	Cathode	6.3	0.45 1.	00.00	3.0	O VHF	Атр.		26■	-	18	:	4,600	9,300	43	:		6BK7A
GT	Duotriode	8BD-0-0	Cathode	6.3 1.	1.5 4.2		w	Vert	Amp.#	Aaximum F	Maximum Peak Positive Pulse	Pulse Pla	Plate Voltage	= 2,000 X/-16- To	lts.	Maximum D-C Cathode	hode Current	= 60 Ma.		6BL7GT
Miniature	Pentode	7DF-0-1	Cathode	6.3 0.	+		+-	Limit	Limit Discrim.	65.	1.3 + 6	09	0.23	5.						SBNS
T-61/2	1	9AJ-0-0 Cathode 6.3	Cathode one aif		0.75 0.7		1.4 0.3	-	Oscillator 1	120	0.5	0	5.0	:	14,000	2,000	00 0	:		6BN7
ST-12	Beam Amp.	6AM-0-0	Cathode	6.3 1.2	+					50	250 22.5 150	0 5		2.1	20,000	55 2.1 20,000 5,500	الكالة		: :	6BQ6G
T-11		_			2 0.6*		7	*	Horiz Amp. Ch	Jaracteristic	O,000 Peak Fos. Plate Voits, 110 Ma, Max. Cath Characteristics and Rating Same as Type 6RO6G	olts. 116	Type 680	Cathode C	urrent, 11 W	atts Max. Pl	ite Diss. 2.5	Watts Max.	Screen Diss.	ABOAG A
	Beam Amp.	0-0-WY9	Cathode	6.3 1.2			15.0* 7.5*	*		haracteristi	Characteristics Same as Type 6BQ6G.	ype 680	6G. Dissip	ation Ratin	Dissipation Ratings Same as Type	ype 68Q6G.				68Q6GT
T.9	Beam Amp.	0-0-WA9	Cathode	6.3 1.2	2 0.6*		15.0* 7.5	5* Horiz.	Amp.	haracteristi	Characteristics and Ratings Same as Type 6BQ6G	gs Same a	s Type 6BC	26G.	Waximum L	C.C. California	1	I O Ma.		6BQ6GTA
										10										

2 CHARACTE AVERAGE ĺ FS TUB SYLVANIA

		Туре	ABO7	-	68T6	6BU6	6BX7GT	ADVEA	6RY5GA	6876	6826	6BZ7 6C4		6C5	6C5GT	٥٥٥	6C7	9636	maximum Cathode Resistor				0-9	(a)	000	NO N	0.7		10 10 10 10 10 10 10 10 10 10 10 10 10 1	N N	6-AX
Undis	Power	Output Milli-		Call I	:	3	3 :			= 2.5		5,500	: :					ction)	E		(F)			(5)						2	
Ohmo		Stated Power Output	(RV = 000	1.		10,000				When Grid 3 Voltage	Semi-Remote Cutoff	Cless C	: :		:	: :		Voltage Amplification 48.	Pentode Operation. Plate to Plate.	roximate.)4	3			7-6				9-AJ
	Ampli-	Factor	35	36	07	16.5	10	to Filter				00 · 1	19.5		08			36 age Amp		200	Je Je	71		6	Toll	·		/	To Ja	Tel.	
		Micromhos	000'9	6,400	1,300	1,500	7,600	Condenser Innut to Filter	= 175 Ma. Max. Each Plate.	t = 50 A Amps.	6,100	008'0	3,100				1,250	1.00,000 Ohms, Self-Bian Resistor 1,500 Ohms, Volta Outbut Volta BO RMS for Investor Contractor	,000 ohms. Iductance.				2.00	E E E		というなが	7.DF	9			9.8
	Plate		5.800	6,100	54,000	11,000	1,300	375 A.C. Volts Per Plate, R.M.S., 175 Ma. D.C. Output Current		Plate Current =	0.6 Meg. 4	000/5	6,250	ances.	10,000	- Meg.+	16,000	les Resistor 1,5	Applied through 20,000 ohms. Convenion Transconductance. Triode Operation.	ue Operation.			\×				9.2	F.			À,
	Screen	Me.			: :			ta. D.C. O	D.C. Plate Current	3.5	5.6			pt Capacit		0.0		hms, Self-E	A Apr Trio				\ \$				7				8-FU
	Plate	W.	o.	6	1.0	9.0	42	M.S. 175 N	Max. D.C. P	1.4	11.0	25.		as Type 6C5GT, Except Capacitances.	0.0	8.0	4.5		Applied through 250,000 ohms. Per Tube or Section. Plete and Terget Supply Voltage.)王。	15 a		30	\ X	Ā	3 00		
		Volts			: :			er Plate, R	3,000 Volts Abs. Max.	25	150			e as Type	100	100		Piete Load	Section.				15°			19 / S	7-CM				1 /2/2
	Negative	20 20 20 20 20 20 20 20 20 20 20 20 20 2	Self	220=	3.0	9.0	390#	C. Volts P	3,000 \	#182=0	180 8	27 8 5	0	Characteristics Same	3.0	3.0	0.6	4.6 0.0	Applied the er Tube or			e e		/9a)	Tel.			La Company	3		
	Plate	Volts	150	Н	100	400 250	-	+	F		200	300	100	Characte	100	250	250	820	* ***				6-8G			()	7.CH	The second second	4 [8-DY
	9	Š	Ampliffer	VHF Amp.	Det. Amp.	Det. Amp.	Vert. Amp.	F-W Rect.	T.V. Damper	Sync. Separator	R-F Amp.	R-F Osc.		Ampliffer	Amolifier		Det. Amp.	Ampliffer	(3) Has special mechanical and/or life characteristics. With Average Power Input of 350 Mw. Grid to Grid. The Fer two tubes with 40 volts RMS applied to each grid.	,					1 2 K	-3-" -3-"	\	A Section of the sect			
		Court		1.35	:	:	1.5	:	:		8.8	2.5		1.0	- x.c		: 6	o oi	life character 190 Mw.				6-AS				7-8Z			<: (a)	8-DG
ote (') (')	Capacitances in µµf.	5	2.55	2.85	:	:	4.8		:	5.4*		1.80		3.0	,0 k		: 4		I and or Input of 3 volts RM						2 K	<i>3</i> 7/ <		V	2 2	37	
Ž,	3	s. Cgp.	-		:	:	4.0	:	:	0.08m*	.015m	1.4		+	7. Z			 	rage Power bes with 40				WA-9				7-81		Thidu		8-C1
	_	lts Amps.	0.40	Н		3 0.30	1.5	1.6		Н	0.3	+	-	0.30	+-	-	\top	0.0	des special With Ave		3		-/		12	9,	/	4		3	, ω
	Emitter	Volts	ode 6.3		ode 6,3	ode 6.3	ode 6.3	ode 6.3		\vdash	de 6.3	+	-+		de 6.3	\rightarrow	+		6:2±				À	150	(5) (5)			Let	5		<u> </u>
		Type	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode		Cathode	Cathode		Cathode	Cathode		Cathode	Cetto de	to plate,) (mg)	5-S			() to 1	7-BK			Z X	8.00
		Basing Diag.	9AJ-0-9			787-0-2	980	0-0-N29	0-0-ND9	7CH-0-0	7CM-0-7	6BG-0-0		60-1-1	6F-0-5			0-0-5	d with (*). ignal grid		To John				(S) [2]	ク ン.			(0)	200	
	Construction	Cless	Duotriode	_		Duodiode Tri.	Duotriode	Duodiode	Duodiode	Heptode	Pentode	Triode		Triode	Pentode		-	PROGRAM	nd unless marke nces given are s	0			5-81	H H P C			7.80	500			8-BD
		Bulb Size or Style	T-61/2	T-61/2	Miniature	Ministure	6-1	ST-14	T-12	T-51/2	T-51/2	Miniature		Metal	ST-12	CT 10	21-12	X1-10	iven shield be capacital ker Output		18			100	T T			4	石		
	Type		6807	68Q7A	6816	9 B0	6BX7GT	68Y5G	68Y5GA	6BY6	6826	904		8C5	500	2	7000	200	(1) Values are given shielded unless marked with (*). (2) Converter tube capacitances given are signal grid to plate, RF Input, Mixer Output.			1	4-CG				S-9				>:

SWBOLS FOR BASE DIAGRAMS: A-Anode 1, A2—Anode 1, A2—Anode 2, D1—Deflector 1, Dp—Diode Plate, F-Filement, Fc-Filement Center, G—Control Grid, Gs—Anode Grid, Gm—Modelator Grid, Go—Oscillator Grid, Gi—Screen Grid, H—Heater, Hc—Heater, Ht—Heater Tap, fC—Internat Connection, I—Jumper, K—Cathode, NC—No Connection, P—Plate, Rc—Rey Control, S—Metal Shell, SA—Starter Anode; Su—Suppressor Grid, I—Target, XS—External Shield, □—Top Cap, ———Locating Pin.

C
2
RACTERISTI
S
Œ
ш
6
9
d
2
- AVERAGE CHAR
I
()
ы
65
AGE
Q
AVER
>
4
ı
ш
00
2
4
ANIA TUBE
4
>
_
40

S

																				1	
,		Construction			Emitter		N O	Note (') (7) Capacitances in $\mu\mu h$.		. 4		Legative District		Plate	Screen	Piate	Transcon-		Ohms Load for	Undis- torted Power	
*	Bulb Size or Style	Class	Basing Dieg.	Type	Volts	b Amps.	Cgp.	Cin.	Cout	200	Volts	Volts	Volts	X.	Ma.	Ohms	Micromhos	Factor	Power Output	Milli- walts	lype
6CB6	Ministere ST-15	Pentode	7CM-0-7	Cathode	6.3	0.30	0.02m	6.3	1.9	Amplifier Horiz Amp	200 Maximur	Self m Peak Po	150	9.5	2.8 6 600 Volte	♦ 000,000 ♦	6,200	ouent = 900	(Rk = 180	Ohms)	6CB6
1000			1	-	-		.000		-	4	Maximum	m Plate Dia	Plate Dissipation =	15 Watts.	Maximum S.		ion = 3 Watt				
6C.S6	Ministrate	Pentode	7RK-0-9	Cathode	6.0	0.0	000 m	0.00	0.50	R-F Amo	950	000	150	200	9.3	790 000	0000				ocro
6CL6	1-6%	Pentode	>86	Cathode	-	0.65	0.12	+	5.5	Video Amp.	250	6	150	30	7	0.15 Meg. 4	11,000		7,500	2,800	6CL6
6CM6	-	Beam Pentode	4 9CK	Cathode			0.7	8.0	5.5	Power Amp.	315	13.0	180	34	0 04 P	\$0,000 80,000	3,700		8,500	5,500	6CM6
6CR6	1-51/2	Diode Pent.	7EA	Cathode	6.3	0.3	:	1	:	DetAudio	250	2.0	100	9.5	3.0	200,000	1,950		: :	: :	6CR6
9S29	T-51/2	Heptode	7СН	Cathode	6.3	0.3	0.05	5.5	::	SYNC	100	0 Grid 1	30	8.0	4.0	0.7 Meg.	1,250 Gr. 3	. 3 Grid #3 Volts	Volts = -1.0		6CS6
ACLIA	1.10	Beam Amo	000404	Cathode	6.4	0	0.30	15.0*	*0.7	Horis Amp	Character		30 James	U.75	ROAG Eve	30 0.73 1.1 1.0 Meg. 950 Gr.	S DCV	- 1	Н		4014
6D4	Miniature	Ges Triode	5AY-0-0		+-	+-	0.00	2::	. :	Relay Tube	350		Peak Catho	de Current	100 Ma. Ca	Peak Cathode Current = 100 Ma. Cathode Current = 25 Ma. Approx. Volt Drop @	=25 Ma. A	oprox. Volt L	Drop @ 25 Ma.	=16V.	6D4
9Q9	ST-12	Pentode	6F-0-5		6.3	0.30	m700.	4.7*	6.5*	Amplifier	100	3.0	100	0.0	9.0	250,000	1,500	:	:	:	9D9
6D7	ST-12	Pentode	7H-5-6	Cathode		0.30			:	Amplifier	Character	Characteristics Same	38	C6.	2.3	200,000	200'-				6D7
6D8G	ST-12	Heptode	8A-0-0	Cathode		+-	0.2	8.0	11.0	Converter	135	0.0	400	10 H	1.7	000,009	3254		(Ga = 135 V., 1.8 Ma.)		6D8G
6D86	T-51%	Pentode	7CM-0-2	Cathode	6.3	0.3	.0035*	*0.9	5.0*	Color Demod.	150	0.0	150	0, 10	6.6	50,000	2.050 us		4. L. 4.5 Ma.)	7	6DR6
6DC6	T-51/2	Pentode	7CM-0-7	Cathode	-	-	0.02*	6.5*	*	Amplifier	200	180 ■	150	0.6	3.0	200,000	5,500	Sen			6DC6
6E5	6-1	Electron Ray	6R-0-0	Cathode		0.30	:	:	:	Indicator	1008	(Series Plate	Resistor	1.0 Meg. Ta	Target Current Target Current	1.0 Ma. Grid 4.0 Ma. Grid	Bias	= 3.3 for 90° Shadow) = 8.0 for 90° Shadow.)	0W)		6E5
6E6	ST-14	Duotriode	78-0-0	Cathode	6.3	09.0	:	:	:	Power Amp.	T	20.0	:	11.5	:	4,300		0.0	15,000	750	6E6
6E7	ST-12	Pentode	7H-5-6	Cathode		0.30				Amplifer	Character	Characteristics Same	as Type	6D6.		2000	2000	25		200	6F7
6F4	Acom	Triode	7BR-0-0	Cathode	1	1	1.9*	2.0*	*9.0	Amplifer	80	Self		13.0		2,900	5,800	17	(Rk = 150	Ohms)	6F4
6F5	Metal	Triode	5M-1-0	Cathode		0.30	2.3	5.5	4.0	Amplifier	Characte	Characteristics Same	as Type 6F5GT.	F5GT.							6F5
6F5GT	15	Triode	5M-0-0	Cathode	- 1	-	,00 ,00	%.5×	3.0	Ampliffer	250	5.0		6.0		000,99	1,500	100		ا	6F5GT
6F6 6F6G/GT	Metal ST-14 GT	Pentode	75-1-0	Cathode	6.3		:	:	:	Power Amp. P.P.A1 Amp.	250 315 375	26.000 6.000 7.000	10 10 10 10 10 10 10 10 10 10 10 10 10 1	2 6 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	20.07 0.00 0.00	78,000 (Current & (Current &	2,550 2,550 R Output for Two Tubes)	Two Tubes)	00000	1,000 11,000 18,000	6F6G/GT
6F7 6F7S	ST-12	Pent. Triode	7E-0-6 7E-6-6	Cathode	6,3	0.30	.008m	3.2		Pent. Amp. Pent. Amp. Tri. Amp.	100 250 100		88	. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	1.6	290,000 850,000 16,200	1,050	I/)	Pentode Section Pentode Section Triode Section	Section Section	6F7 6F7S
6F8G	ST-12	Duotriode	8G-0-0	Cathode	6.3	09.0	3.8*	1.9*	*.*	Amplifier	250	8.5 5.5 7	late Load 5	0.000 plification S	s Per Plate,	9.0 Plate Load 50,000 Ohms Per Plate, Self Blas Resistor 1,150 Ohms, Voltage Amplification 29, Output Volta 65 RMS, for Invester Servi	2,600 stor 1,150 O , for Inverter	hms, Service.	(One S	1	6F8G
6G5	Now Know	Now Known as Type 6U5	10									1 1									6G5
99999	ST-12	Pentode	75-0-0	Cathode	6.3		:	:	:	Power Amp.	135	0.0	135	11.5	010	170,000	2,100		12,000	1,100	9999
6H4GT	GT	Diode	5AF-0-0	Cathode	1 L					Rectifier	100		:	4.0				:			6H4GT
6H6, 6H6GT	GT, Metal	Duodiode	70-0-1	Cathode	6.3	0.30		:	:	Rectifier	117 A-C		r Plate, RM	Volts Per Plate, RMS, 8.0 Ma.	Output Curr	Output Current Per Plate.	10,000	M	, (D).	1000	6H6GT, 6H6
615	Metal	Triode	60-1-0	Cathode	1		3.4	3.4	3.6	Amplifier	Character	Characteristics Same		as Type 6J5GT, Except	of Capacitances.	1.		20			615
6J5GT	GT		60-1-0	Cathode	6.3	0.30	 00.	Н	Н	Amplifier	250	8.0		0.6		1 1	2,600	50	١.		6J5GT
979	Miniature	Duotriode	7BF-0-0	Cathode	6.3		4.4.	0i 0i	60.	R-F Amp.# Osc. Amp.	150	::0	: :	30.5	:::	7,100 Push-pu	7,100 5,300 Push-pull Class C O	Operation 38	(Rk = 50	3,500	979
6J7	Metal	Pentode	7R-1-1	Cathode	\vdash		.005m	ì		R-F Amp.	Character	istics Same	as Type 6.	Characteristics Same as Type 6J7GT, Except	U	1					7(9)
6J7G 6J7GT	ST-12 GT	Pentode	7R-0-1	Cathode	6.3	0.30	.007m	4.0	12.0	R-F Amp.	250	3.0	100	0.0	0.5	1.0 Meg.+	1,225	:	:	:	6J7G 6J7GT
9869	ST-12	Tri. Heptode	_	Cathode	6.3	0.30	.02m	4,4	10.0	Mixer	250 250 Plate	3.0 Supply	100 Thru 20,000 F	1.3 Res Grid	2.9 Resistor 50	4.0 Meg.	290 A	(Heptode	le Section) 5.0 Ma. (Triode S	ection	618G
6K4	T-3	Triode	6K4	Cathode		+	2.2*	2.4*	0.85*	Osc. Amp.	100	2.0		0.2		3,650	5,500	20			6K4
6K5G AK5GT	ST-12	Triode	50-0-0	Cathode	6.3	0.30	0.0	0.0	5.75	Ampliffer	100	3.0		0.35		78,000	1,400	57			6K5G 6K5GT
6K6GT	15	Pentode	75-0-0	Cathode	6.3	0.40	:	:	1	Power Amp.	100 250 315	18.0	100 250 250	38.0	6.70.4 0.70.0	104,000	2,300		7,600	3,400	6K6GT
6K7	Metal	Pentode	7R-1-0	Cathode	6.3	0.30	.005m	7.0 1	12.0	R-F Amp.	Character	Characteristics Same	ě	6K7G, Except	S						6K7
6K 7G	ST-12	Pentode	78-0-8	Cathode			.007m		0.0	R-F Amp.	100 250 250	0.00	1000	10.5	P. P. 9.	150,000 +	1,650	:::	:::		6K7G
6K7GT		Pentode Tri Hanada		Cathode	6.3	0.30	.005m		12.0	R-F Amp.	Character	istics Same	as Type 6	K7G, Excep	Characteristics Same as Type 6KTG, Except Capacitances.	25.					6K7GT
6K8G	ST-12	Tri. Hexode	8K-0-8	Cathode			.08m	4.6	0.4	Mixer	250	3.0	100	2.5	6.0	3.0 100 2.5 6.0 600,000 3504	350▲		Hexode Section)		6K8G
OK BG1	15		8K-1-8				- 08m	2.0	4.3	Oscillator	100	Grid Kesi	stor 50,000	Plate Curre	nt 3.8 Ma.,	Mutual Cond	uctance 3,00	_	sction not Os		OK8G1
										Ī	N-nn-1A	1									

S C S 2 Ш U HARA C Ш G 4 4 Ш > 4 S Ш 8 |--4 LVAN S

	lype I ype	ms) 6L4		00 6L6 6L6GA 00 6L6GA 00 6L6GB	+		-	6N6G	00 6N7GT	eV.	m maximum Cathode Resistor		APPROVE PRICETYS PLAT LEAD 6-K4	7.EA		
Ohms Undis- Load torted For Power		(Rk = 150 Ohms)		8,500 4,200 10,800 5,000 6,600 3,800 47,000		eg. 15 Vol	ms) 7,000 3,900	000 1	8,000¶ 10,000 (Class A Driver) (Class A Driver)		Pentode Operation. Plate to Plate. Approximate.		6-R	A P		
	Micromhos Factor	6,400 28	1,500 15	6,000 5,200 5,700 1 Output for Iwo Tubes)			Rk = 1	A 00	:		***************************************					
Plate Trans					1 3		40,000 10,0		O C	.6 Meg. 2,2	Applied through 20,000 ohms Conversion Transconductance. Triode Operation.		0,000	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
Screen	Ma.		: :	0.00.00.00.00.00.00.00.00.00.00.00.00.0	3	9.00		8.0	er Plate, Class E	1.75	□ ⋖ ‡	(a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	H 1-0			
Plate	Volts Ma.	9.5		250 72.0 250 54.0 250 134.0 270 88.0	0		250 36	(Input Section)	17.5 Per Pla 6.0 7.0	8.5	Applied through 250,000 ohms. Per Tube or Section. Plate and Target Supply Voltage.		6-AW			
Negative Grid	Volts Volts		100 250 9.0	250 350 18.0 270 17.5 360 22.5 360 22.5	Characteristics Sam			300 0.0	300 0.0 250 5.0 294 6.0	250 2	* Applied thr # Per Tube or \$ Plate and Ta		8-AM	P + C C C C C C C C C C	3 7 4	
		Osc. Amp.		P.P.AB1 Amp. P.P.AB1 Amp. P.P.AB2 Amp.	Mixer	Ampliffer Mixer Amp.	Power Amp.	Power Amp.	Power Amp. Driver Driver		rracteristics. w. Grid to Grid. ied to each grid.		7	d U U U U U U U U U U U U U U U U U U U		
Note (¹) (²) Capacitances in µµf.	Cin. Cout	1.8* 0.5*	_		7.5	0.0	+	0: :		4.0 4.6	al and or life cha Input of 320 My volts RMS appl		1.5 U-2			9.CK
23	Amps. Cgp.	1		0	0.30 .001m		-	0.80	0.80	0.3 .002m	(3) Has special mechanical and/or life chara \text{\texi}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi}\text{\text{\texi}\tint{\text{\texi}\text{\text{\text{\texi}\text{\text{\text{\text{\text{\text{\texi}\text{\t		25-M			
Emitter	Type Volts	Cathode 6.3		Cethode 6.3	-			Cathode 6.3	Cathode 6.3	ode			5-BT			
E	Basing Diag.	7BR-0-0	0-0-09		Н		-+	1AU-0-0	8B-0-0	t. 9T-0-0	ked with (*). signal grid to	# # # # # # # # # # # # # # # # # # #				
Construction	Class		Triode	<u>a</u>			- 1	Duotriode	Duotriode	Duodi. Pent.	(1) Voluce are given shielded unless marked with (*). (2) Converter tube capacitances given are signal grid to plate; RF Input, Mixer Output.		5-AY			
	Bulb Size or Style	Acorn	ST-12	Metal ST-16 ST-14 T-12	Metal	N-1-12	T-61/2	ST-14	Metal	T-6½	are given shie ler tube capaci it, Mixer Outp					
2		61.4	9F79	6L6GA 6L6GA 6L6GA 6L6GB	61.7	0//0	6M3	6N6G	6N7GI 6N7	8N9	(1) Values (2) Convert RF Input		5.AF	a a a A A A A A A A A A A A A A A A A A	# (A) (A) #	

SYMBOLS FOR BASE DIAGRAMS:

A—Anode: 71—Anode 1, A2—Anode 2, D1—Deflector 1, Dp—Diode Plate; F—Filament Center; G—Control Grid, Ga—Anode Grid, Ga—Anode Grid, Ga—Anode Grid, Ga—Anode Grid, Ga—Anode Grid, H—Heater Center; H1—Heater Iap; IC—Internal Connection; J—Jumper; K—Cathode; NC—No Connection; P—Plate; Rc—Ray Control; S—Metal Shell, SA—Starter Anode; Su—Suppressor Grid, I—Terget; X3—External Shield, II—Top Cap; ————Locating Pin.

C
-
S
-
2
Ш
-
O
4
04
4
I
C
لنا
C
4
02
ш
>
4
1
S
Ш
00
>
<u> </u>
4
Z
4
>
_
>
S

S

		Iype	6P5GT	6P7G	604	607	6Q7GT	6R4	687 687	-		654	657	687G	6S8GT	65A7	03A/GI	6587У	65C7, 05C7G1 65D7GT	6SE7GT		6SF5 ACESCIT	6SF7	65G7	65G7GT	70112	6SH7GT	6517	6SJ7GT	6SK7	6SK7GT	6SL7GT	6SN7GT	65N7GTA	6SN7WGT(3)	68Q7	6SR7	6SR7GT	6557	6ST7	6SU7GTY	65V7	674	675	617G	678
Undis	Power	Watts									300								Liode)						::		:		:		: :								: :					ation.	: :	
Ohms	Load	Power Output										= 30 Ma.					: :		(Each						: :		:						:								:			Target Illumination.		
	Ampli-	Factor	13.8 Input Signal)		80	70	70	1 160	3.	16				1,100	100				2			100	:					•			: :	70	080			100		16		16.0	70	70	13	for Mex. Targ	65	00
	Transcon-	Micromhos	1,450 Ma with no le		12,000	1,200	1,200	1,450	2001	1,900	1,900	um D-C Cothe		1,250	1,100	AOK A	450A	880₽	3,350	3,100	3,400	1.500	1,975	2,030	4,100	4,000	4,000	1,700	1,575		2,350 2,000	1,600	3,000	tings.		1 100		1,900	1,950	1,900	1,600	3,600	000,7	ies 22 Volts	1,050 65	1,300
	Plate		9,500 sted to 0.2 A			58,000	28,000	800 000	BS.	1 1	8,500	2,000 Volts. Maximum D-C Cathode Current		1 Meg.	91,000	FOO DOO A	1.0 Meg. 4		250,000 ♦	250,000 ¢	• 000,000,	66.000	\$00,000	ces.	900,000 0	- Weg.+	350,000 0	es.	700,000 ¢	es.	120,000 \$	44,000	6,700	Dissipation Ra		of 000		8,500	1,000,000 0	8,500	44,000	1.5 Meg.	1,860	.21	95,000	
	Screen		5.0 9,500 (Plate Current to be adjusted to 0.2	apacitances.		ot Capacitance		1.7	pt Capacitano		-	11	1 2	6.0		Capacita	3 00			2.4	1.5	pt Capacitano	4.00			3.4	2.1 350	Capacitano	0.0	Capacita	2.6		:	Voltage and [ept Capacitan			0.0			80		get Current 3.		: :
	Plate	Ma.	5.0 (Plete Curr	6F7, Except Capacitances	15	OC/1G, Except Capacitances.	1.00	30	6R7GT, Exce	250 9.0 9.5	9.5	Maximum Peak Positive Pulse Plate Voltage Maximum Plate Dissipation = 7.5 Watts.	6S7G, Excep	3.7	0.0	8	3.5	0.4	5.7	5.5	4.5	250 2.0 0.9	10	6SG7GT, Except	10.0		5.3 10.8	6SJ7GT, Except		6SK7GT, Except	13.0	2.3	100	Same as 6SN7GT except for Higher Plate Voltage and Dissipation Ratings.	Characteristics Same as Type 6SN7GT.	SSQ7GT, Exc	SR7GT.	9.5	9.0	9.5	2.3	1.0		=	1.2	0.80
		Volts		as Type		e as Iype		100	ame as Type	:		Positive Puls Dissipation	ame as Type	100		ame as 1ype		100	100	100	100	me as 1ype	86	9	100	150	100 1.0 100 050	me as Type (55	as Type	98	Tune		T except for	me as Type (me as Type (Characteristics Same as Type 6SR7GT		000		001	150		Series Plate Resistor		
	Negative		13.5	Characteristics Same	1.0	Characteristics Sam	3.0	3.0	cteristics S	0.6	0	mum Peak mum Plate	cteristics S	3.0	2.0	cteristics 5	250 2.0	1.5	0.00	1.0	1.5	2.0	0.0	teristics Sa	0.0	2.5	1.0	Characteristics Same	3.0	Characteristics Same	3.0	250 2.0	0 «	as 6SN7G	teristics Sa	teristics Sa	teristics Sa	0.6	3.0	0.6	2.0	3.0	150	Series	3.0	-6
	Diaje	Volts	250	-		+	+	150	+	╁	-		H			Chara	250	+	200	100	250	250	100	Charac	100	250	100	Charac	100	Charac	100	250			Charac	Charac 950	Charac	250	100	250	250	250	80	250%	250	250
			Amplifier	R-F Amp.		Det. Amp.		R-F Amp.	Det. Amp	Det. Amp.	Det. Amp.	Vert. Amp.	R-F Amp.	R-F Amp.	Det. Amp	Converter	COUVERE	Converter	R-F Amp.	R-F Amp.	4	Amplifier	Det. Amp.	R-F Amp.	R-F Amp.	D.E. Amp	R-F Amp.	R-F Amp.	R-F Amp.	R-F Amp.	R-F Amp.	Amplifier#	Amplifier	Vertical Osc. Amp	Ampliffer	Det. Amp.	Det. Amp.	Det. Amp.	R-F Amp.	Det. Amp.	Ampliffer	Det. Amp.	UHF Osc.	Indicator Det Ame	Det. Amp.	Det. Amp.
	5	Cout	10.01	12.0	0.06m	5.0	5.0	11.0*	3.8	5.5	* -	:	10.5	0.8	5.0	12.0	2	6.6	7.5	7.5	70	0 00	0.0	7.0	7.0	7.0	7.0	7.0	7.5	7.0	7.5			0.7*	1	3.0	3.0	3.8	7.0	3.0		0.0	0.40*		3,1	1.1*
lote (') (2)	Capacitances in µµf.	Ë	3.4	2.7	5.4	3.6	oi 7	4.5*	+	2.6	1.5*	: 	6.5		1.2	5. C. C.		9.6	9.0	0.9		2 4	10.	8.5		er or	8 80 10	+	6.3		6.5		9, co	% *9 **9		w 4	3.0	3,5	io Io	00		6.0	2.6*	; o	00	1.5*
Z	3	Cgb,	2.6	.007m 2.0	3.4	4. 70.	9. 1	m700.	2.3	2.1	2.4	:	.005m	.008m	2.0	ms L.	E .	0.13m	.0035	.0035m	4	2.4	.004m	.003m	.004m	0032	.004m	.005m	.005m	.003m	.005m		3.8*	0.6		9. 0	2.3	2.3	.004m	1.5	17000	0.004m	1.7*		7.7	2.4*
		A Amps.	1	0.30	\vdash	0.30	-	0.3	+	0.30			0.15		0.30	0.30	2	0.30	0.30	0.3	000	0.30	0.30	0.30	0.30	0 30	0.30	0.30	0.30	0.30	0.30	0.30	909	9.	0.60	0.30	0.30	0.30	0.15	0.15	0.30	0.30	0.225	0.3	0.13	0.45
	Emitter	Volts	de 6.3	de 6.3		de 6.3					1_		de 6.3		le 6.3	+			6.0	6.3	-	6.3	+	+		_	6.3	+	e 6.3	e 6.3			6.3	e 6,3	1	6.3 6.3	+	++				+	6.3	_		6.3
		Type	Cathode	Cathode	Cathode	Cathode	Catho	Cathode	Catho	Cathode	Catho	Cathode	Cathode	Cathode	Cathode	Cathode		Cathode	Cathode	Cathode	7	Cathode	Cathode	Cathode	Cathode	Cathoda	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cethode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cethod	Cethode
	r	Basing Dieg.	0-0-09	10-0-8		7.0-8	77.1-8	0-0-W-9-9	. 7V-1-1	. 7V-0-8	. 9E-0-3&8	0-0-0-0 6	7R-1-1	7R-0-8		8K-1-0		88-1-0 0-1-0	8N-1-5	8N-1-5	4 40 4 0	6AB-0-0	7AZ-1-1	8BK-1-1	8BK-1-1	RRK_1_1	8BK-1-1	8N-1-1	8N-1-5	8N-1-1	8N-1-5	8BD-0-0	8BD-0-0	8BD	8BD-0-0	80-1-1	80-1-1		8N-1-0		8BD-0-0	8Q-1-0	7DK	6R-0-0		9E-0-3 & 7
	Construction	Class	Triode	Pent. Triode	Triode	Duodiode Iri.	Duodiode Ir	Pentode	Duodiode Iri	Duodlode Tri.	Triple Dio. Tr	Por	Pentode	Pentode	Triple Dio. Tri.	Heptode		Heptode		Pentode	Table	Triode	Diode Pent.	Pentode	Pentode	Pontode	Pentode	Pentode	Pentode	Pentode	Pentode	Duotriode	Duotriode	Duotriode	Duotriode	Duodiode Iri.	Duodiode Tri.	Duodiode Tri.	Pentode	Duodiode Tri.	Duotriode Diode Bank	Duodiode Tri.	Triode	Electron Ray	Duogloge III.	Triple Diode Triode
		Bulb Size or Style	GT	ST-12	T-61/2	ST-12	GI	ST-12				-0/2	Metal	ST-12		Metal	5	Metal	GI GI	GT	14.14	GI	Metal	Metal	E C	Metal	GT	Metai	GI	Metal	GI	GI	15	1-9		Metal	-		Metal	-	GI	Metal		ST-12		T-6%
	Type		6P5GT	6P7G	904	5076	607GT	6R6G	6R7	6R7GT	6R8	450	159	6S7G		65.A.7.C.T	5	65B7Y	6SD7GT	6SE7GT	ACEE	6SF5GT	6SF7	6SG7	68G7GT	VCH1	6SH7GT	65.17	65J7GT	6SK7	6SK7GT	6SL7GT	6SN7GT	6SN7GTA	6SN7WGT (3)	65Q7GT	6SR7	6SR7GT	6557	6517	6SU7GTY	1 NO 0		615		618

AVERAGE CHARACTERISTICS

	Type		6U4GT	902	6U6GT	6U7G	8N9	6V3	674	6V5GT	777	AVAGT	6V7G	8/9	AWAGT	6W5G	6W6GT		6W7G	6X4	m maximum Cethode Resistor	
Undis- torted Power	Output	watts			2,000								160				2,100 6	2	9	9	E.	a m
Cond	Stated	Output			2,000				-		-		85,000				8,000				Pentode Operation. Plate to Plate. Approximate.	A TOTAL STATE OF THE STATE OF T
	fication		er.	O Shadow.			40			:::			00 00 00 00 00 00		2			- 11			Pentode (
	ductance R		Condenser Input to Filter.	(Series Plate Resistor 0.5 Meg., Target Current 1.0 Ma., Grid Bias - 8.0 for 0° Shadow.) (Series Plate Resistor 1.0 Meg., Target Current 4.0 Ma., Grid Bias - 22.0 for 0° Shadow.)	5,600		8,500	łax.	Condenser Input to Filter.	4,100			975	1,300	204	325 A-C Volts Per Plate, RMS, 90 Ma. Output Current. Condenser Input to Filter.	8,000		1,225			
			ondenser	, Grid Bie	400			135 Me. Abs. Max.	denser ing	* '					Filter.	enser inpu	8 + 0	Maximum Screen	1, 4 1,	ut to Filte	20,000 conducta	
Plate	Resistance		Current. C	1 4.0 Ma.	10,000	800,000	5,000 0.4 Meg.	00	- 1				8,500	54,00	Condenser Input to Filter	nt. Cond	4.0 13,000 ¢	Volts. M	1.5 Meg. 4	Condenser Input to Filter.	Applied through 20,000 ohms. Conversion Transconductance. Triode Operation.	
Screen	Current Ma.	_	. Output Current.	get Currer	3.0	90.9	. ic	e Current	Output Current.	0.0	Characteristics Same as Type 705 Event Caracteristics		: :		Condens	tput Curre	4.0	= 1,000			□ Appli Conve	S S Z
late	Current Ma.	-	Volts Per Plate, R.M.S., 125 Ma.	Meg., Tar	00	0 94					- veent		r00	∞ C	350 A-C Volts, RMS, 125 Ma. DC Output.	Me. O		Voltage Watts.			hms. tage.	
			te, R.M.S.	sistor 0.5	55.0			Abs. Max.	F, R.M.S.		70 70	/pe 7C5.	7.00	8.0	25 Ma. D	RMS, 9	49	Pulse Plate on = 10	0.0	e, 70 Ma.	250,000 o n. upply Vol	
	Screen ts Volts		ts Per Pla	s Plate Re	110		110	O Volts A	Per -		285	Same as Ty		:	, RMS, 1	Per Plate	110	Positive Pos	100	S Per Plat	Applied through 250,000 ohms. Per Tube or Section. Plate and Target Supply Voltage.	
	ts Voits		A.					11	ان		cteristics S	Characteristics Same as Type 7C5	13.5	-	A-C Volts	A-C Volt	7.5 Self	Maximum Peak Positive Pulse Plate Voltage Maximum Plate Dissipation = 10 Watts.	3.0	325 Volts RMS Per Plate, 70 Ma. D.C.	# Applied # Per Tube	
č	Plate Volts			100§	p. 110				-	-		-			1		1.					
:	Ose		H-W Rect	Indicator	Power Amp.	R-F Amp.	VHF Osc. VHF Mixer	T.V. Damper	P-W Rect.	Push Pull	Power Amp	Power Amp.	Det. Amp	Det. Amp.	H-W Rect.	F-W Rect.	Power Amp.	Vert. Amp.	R-F Amp.	1-W Kect.	eristics. irid to Gri to each gri	
****		Court			:		3.5	-	100		11.0	45		:	:	:			8.5		the charact 20 Mw. G applied	
Capacitances in µµf.		Ü	:	:	:	5.0	5.0		0	-		9.5*	1. 1.	:		:	:	Triode Connection	2.0		nput of 3 volts RMS	
2.5		Cgp.			:	.007m	0.01		90	2	0.3	0.7*	1.3	:	:	:	:	Ţ	.007m		(3) Has special mechanical and/or life characteristics. With Average Power Input of 320 Mw. Grid to Grid. The For two tubes with 40 volts RMS applied to each grid.	
				0.30	0.75	0.30	0.45	1.75	0.0	2	0.45	0.45	0.30	0.45	1.2	6.0	1.20		0.15	20.0	ith Avera	
Emitter	-		\dashv		6.3		e 0.3	\vdash	0 0			6.3		6.3	6.3	_	6.3		6.3	_	∂≋‡	The state of the s
		Type	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode		Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode		Cethode	Carnode	plate;	
	Basing	Diag.	4CG-0-0	6R-0-0	75-0-0	7R-0-8	9AE	9BD	0-0-WA		75-1-0	7S-0-0	7V-0-8	9AH-0-3	4CG-0-0	0-0-59	15-0-0		7R-0-8	D-D-0-0	gnal grid to	
Construction			-		Beam Amp.		Triode		Duodiode		Beam Amo.			Triple Diode Triode		Duodiode	Веет Апр.			Cuodiode	unless markedes given are si	
	Bulb Size	or Style				ST-12	T-6½	T-61/2	1-0 ½	5		GT	ST-12 D	T-612		ST-12	150		_	Minieture	capacitanc rr Output.	
1-	Ape		6U4GT	605		9	809		6V5GT		9/9	GT		8/9		6W5G	6W6GT		5	0 V	(1) values are given shielded unless marked with (*). (2) Converter tube capacitances given are signal grid to plate; RF Input, Mixer Output.	

SYMBOLS FOR BASE DIAGRAMS:

A—Anode: A1—Anode 1, A2—Anode 2, D1—Deflector 1, Dp—Diode Plate, F—Filament, Fc—Filament Canter, G—Control Grid, Ga—Anode Grid, Gm—Modulator Grid, Go—Oscillator Grid, Gq—Quadrature Grid, Gs—Screen Grid, H—Heater, Hc—Heater Tap, IC—Internal Connection, J—Jumper, K—Cathode, NC—No Connection, P—Plate, Rc—Ray Control, S—Metal Shell, SA—Starter Anode, Su—Suppressor Grid, I—Target, XS—External Shield, G—Top Cap, ———Locating Pln.

S
C
<u>_</u>
-
S
-
2
ш
2
AC
2
CHA
7
C
Ш
A G E
4
04
ERAGE CH
>
A
S
ш
<u></u>
-
4
A -
A
>
>
S

)									1			5)		2
		Construction			Emitter		Capac	Note (¹) (²) Capacitances in μμέ.		3		Negative	5	Plate	Screen	Plate	Transcon-	Ampli-	Cond	Undis- torted Power	•
200	Bulb Size or Style	. Cless	Basing Diag.	Type	Volts	Amps.	Cgp.	Çi.	Cout	200	Volts	-	Volts	Ma,	Ma.	Ohms	Micromhos	Factor	Power	Milli- watts	lype
6X5GT, 6X5	GT, Metal	Duodiode	0-0-59	Cathode	6.3	09.0	:	:	:	F-W Rect.	325 A-C	325 A.C Volts Per F	Plate, RMS, 70 Ma. Plate, RMS, 70 Ma.		Output Current. Output Current.		Condenser Input to Filter Choke Input to Filter.	er.		-	6X5GT, 6X5
6X5WGT (3)	GT	Duodiode	0-0-59	Cathode		\vdash		i			Characteri	Characteristics Same as Type 6X5GT	ss Type 6X								6X5WGT (3)
8X9	T-6½	Triode	9AK	Cathode			0.06	6; 4, 6;0	0.4.		100	100	150	-	1.6	6,900 ¢	5,800	\$:	: :	: ;	5X8
673G	ST-12	Diode	4AC-0-0	Cathode	6.3	0.80				H-W Rect.	350 A-C	5,000 A-C Volts Per Plate, RMS, 7.5 M 350 A-C Volts Per Plate. RMS, 50 Ma.	Per Plate, RMS, 7.5 M er Plate, RMS, 50 Ma.		Output Current	Current. Choke	or Condenser	Input to Fifter	er.		673G
676G 676GA	ST-14 T-19	Beam Amp.	75-0-0	Cathode	_	1.25		:			135	13.5	135		3.5	9,300	7,000		2,000	000	6766
6776	ST-12	Duotriode	8B-0-0	Cathode	6.3	09.0	:	:	:	Power Amp.	180	0.0		7.5#	:	(Class B C	(Class B Operation)	:	7,000,7	005,0	6776
624	ST-12	Duodiode	5D-0-0	Cathode	6.3	0.50	:	:	:	F-W Rect.	325 A-C	Volts Per	Plate, RMS	As.	Output Current.	1	Condenser Input to Filter	er.	000't	3	6Z4
6Z5/12Z5	ST-12	Duodiode	6K-0-0	Cathode	19.6	0.80	:	:	:	F-W Rect.	230 A-C	Voits Per	Plate, RMS	, 60 Me. O	utput Curre						625/1925
6Z7G	ST-12	Duotriode	88-0-0	Cathode	6.3	0.30		:	:	Power Amp.	135	0.0		3.0#		(Class B ((Class B Operation)		9,000	2,500%	6Z7G
6ZY5G	ST-12	Duodiode	0-0-59	Cathode	-	0.30				F-W Rect.	325 A-C	Per	Plate, RMS	Ma.	Output Current	1 .	Condenser Input to Fift	er.			6ZY5G
144	Lock-in	Triode	5AC-L-0	Cathode	6.3	0.30	4.0	3.4	3.0	Amplifier	250			10.0		6,700	3,000	500		: :	7A4
7A5	Lock-in	Beam Amp.	6AA-L-0	Cathode	6.3	0.75	0.44	13.0	7.2	Power Amp.	110	7.5	110	44.0		14,000	5,800	: :	2,500	1,500	7A5
7A6	Lock-in	Duodiode	7DX-L-5	Cathode	6.3	0.15	:	:::::::::::::::::::::::::::::::::::::::		Det. Rect.	150 A-C	Per	Plate, RMS	, 8 Ma. Cun		Per Plate.				+	1A6
1A7	Lock-in	Pentode	8V-L-5	Cathode		0.30	.003m	0.9	7.0	R-F Amp.	100		100	13.0	6.0	120,000 +	2,350		: :	: :	1A7
7A8	Lock-in	Octode	8U-T-7	Cathode	6.3	0.15	0.15m	7.5	0.6	Converter	100	0.0	100	3.0	oi m	650,000 0		(Ga = 100 (Ga = 250	0 V. 2.8 Ma.)		7A8
TABT	Lock-in	Pentode	8BO-L-0	Cathode	6.3	0.15	2	3.5	4.0	R-F Amp.		2.0		4.0	1.3	500,000	-			1	7AB7
7AD7	Lock-in	Pentode	8V-L-5	Cathode	6.3	09.0	0.03	11.5	7.5	Amplifier V Amplifier	300	Self	120	25	0.0	300,000	9,500	: :	(Rk = 68 (Rk = 68	Ohms) Ohms)	7AD7
1AF7	Lock-in	Duotriode	8AC-L-0	Cathode	6.3	0.30	2.3*	, 54 44	1.6*	Amplifier (per unit)		0.00		8.00		6,500 8,400 7,600	2,600	- 4 4		-	7AF7
7AG7	Lock-in	Pentode	8V-L-5	Cathode	6.3	0.15	.005m	7.0	6.0	R-F Amp.	250			0.9	2.0	750,000	4,200		(Rk = 25(1AG1
747	Lock-in	Pentode	8V-L-5 8V-L-5	Cathode		0.3	m200.	0.0	6.5	R-F Amp.	+	1.0		5.7	. e.	1 Meg.	3,300		11 -	_	7AH7
1045	I call in	D-sk-d	0 1 70	Callada	4.3	0	400.440	00+	9	- V U O	+	3.0	+	2.2	0.7	>1.0 Meg.	1,575			:	
IAKI	Lock-in	rentode		Cathode	0.3	».	Suron	0.4.0	Ç.Y.	K-r Amp.		0=0	888	2.0 Max. 2.0 Max.	0.45 43 Mex.	006,11	000,0			::::	7AK7
784	Lock-in	Triode	SAC-L-0	Cathode	6.3	0.30	1.6	۳. ص	ص ما	Ampliffer	100	0.0	: :	4.00	: :	85,000	1,150	90		: :	784
785	Lock-in	Pentode	6AE-L-0	Cathode	6.3	0.40	9.0	7.4	0.8	Power Amp.	100 250 315	18.0	250 250	0.00	4. N. O.	104,000	1,500 2,300 2,100		7,600	3,400	785
786	Lock-in	Duodiode Tri.	8W-L-7	Cathode	6.3	0.30	1.6	3.0	2.4	Det. Amp.	100	0.0		40.0	: :	110,000	1,100	90			786
787	Lock-in	Pentode	8V-L-5	Cathode	6.3	0.15	.004m	5.0	0.9	R-F Amp.	100	3.0	100	9,10	8.1.	300,000	1,675				787
788	Lock-in	Heptode	8X-L-0	Cathode	6.3	0.30	0.2m	10.0	0.0	Converter	100	3.0		- M	1.3	360,000	3604	(Ge = 100 (Ge = 250	0 V., 2.0 Me.)		788
7C4	Lock-in	H. F. Diode	4AH-L-0	Cathode	6.3	0.15				Detector	Half Wav	ode	Rect	fer for High	Frequency	Use.					7C4
7C5	Lock-in	Beem Amp.	6AA-L-0	Cathode		0.45	0.40	9.5	0.0	Power Amp. Class A Class AB1	200 200 200 200 200 200 200 200 200 200	# # # # # # # # # # # # # # # # # # #	200000 800000 800000	29.0 345.0 70.0 70.0	w 4 sin 4 On sio o	52,000 77,000 (Class AB1	3,700 4,100 3,750 Two Tubes)		000,800	2,000 4,500 0,000 0,000 0,000	7C5
7C6	Lock-in	Duodiode Tri.	8W-L-7	Cathode	6.3	0.15	1.6	4.4	4.4	Det. Amp.	100	0.0		0.6		100,000	1.000	100			JC6
7.77	Lock-in	Pentode	8V-L-5	Cathode	6.3	0.15	.004m	in in	6,5	R-F Amp.	100	3.0	000	₩ O	4.00	1.9 Meg.					777
7E5	Lock-in	Triode	88N-L-0	Cathode	6.3	0.15	1.5	3.6	00	Osc. Amp.	150	3.5		13.0	, : :	Oscillator for Oscillator-A	r 750 mc. S	ervice. 300 mc. Service	Çe.	200	7E5
7E6	Lock-in	Duodiode Tri.	8W-L-7	Cathode	6.3	0:30	1.5	3.0	4:01	Det. Amp.	250	3.0	: :	3.9	: :	11,000	1,900	16.5		-	7E6
757	Lock-in	Duodi. Pent.	8 AE-L-7	Cathode	6.3	0.30	.005m	4.6	5.5	Det. Amp.	100	3.0	000	10.0	7.5	150,000					757
757	Lock-in	Duotriode	8AC-L-0	Cathode	6.3	0.30	1.6	4.4	6.0	Amplifier#	100	0.0		2.3	:::	62,000 +		70		: :	7F7
7F8	Lock-in	Duotriode	8BW-L-0	Cathode	6.3	0.30	1.2#	% 00 01	7.	Osc. Amp.	250	Self		6.0 *	:			87	(Rk = 500	500 Ohms)	7F8
7F8W (3)	Lock-in	Duotriode	8BW-L-0	Cathode	6.3	0.30	1.6	3.0	1.7	Osc. Amp.	250	Self		11.0			2,200	20	(Rk = 200	Ohms)	7F8W (3)
										٦	18-										

00

	Type		767	768	7H7	717			7K7	7.77	TNT	707	7R7	1000	157	717	7.77	7W7	7X6	TXT	m maximum Cathode Resistor		10 01	N-DX				8-80
Undis-	Power Output	Milli- watts			OChmel	Call of the call o	: :	: :		:		(00)			: : :	:	OChme	(Silling)		:					7	2		
Ohms	Load for Stated	Output			(RL = 180			: :		:		(Osc. Grid Resistor 20,000)			: : :		(Rk = 160				Pentode Operation. Plate to Plate. Approximate	DAIMIGIE.		A.	90		() () () () () () () () () ()	× 28.
	Ampli- fication	ractor						: :	70		000	Osc. Grid								100	Pento				7	To the state of th		
	Transcon- ductance	MICTORNOS	4,500	2,100		280▲	290▲	0.4 Ma.)	1,600		l	525 & 550 &	2,100 3,000 2,200		0.3 Ma.)		5.800			1,000	000 ohms. ductance.			8-9 S-9	6.59			8-8 18-8
	Plate Resistance		\$000,008	225,000	350,000 0	500,000	1.5 Meg. 2904	Grid Current	44,000	100,000 ¢	6,700	500,000 1.0 Meg.	\$00,000 350,000 4,800,000 	1,000,000 \$	3.0 1.25 Meg. • (Triode Grid Current O	900,006	300,000		ate.	85,000	Applied through 20,000 ohms. Conversion Transconductance. Triode Operation.					9		
	Screen	348.	2.0	8.0	9 M	5.6	2.8	(Triode		4.54		00.00 IV. IV.	0.80	9.00	J. S.	4.1	3.9	Characteristics Same as Type 7V7, Except Capacitances.	235 Volts Per Plate, RMS, 75 Ma. DC Output Per Plate. 117 Volts Per Plate, RMS, 75 Ma. DC Output.		A Conver			¥- ×-	S &			
	Plate		0.9	4.5	10.0	1.5	4.0	2.0	2.3	70.54 70.70	10.0	w.w.	w ru w	4 0	- F. E. C.	10.8	10.0	7V7, Excep	75 Ma. DC 75 Ma. DC	0.0	Applied through 250,000 ohms. Per Tube or Section. Plate and Terget Supply Voltage.			7-9	(a)			
-	Screen		100	100	150	-	- š	X eg		100		5 <u>6</u>	556		XX	120	150	me as Type	late, RMS,		hrough 250 or Section. Target Supp				0			8-8
	Negative Grid			2.5	1.5 Self	-	3.0		2,0	1.0	0.0	9.0	0000	4	0000	-	Self	teristics Sa	/olts Per P	0.1			9	5	4			
	Piste Volts				r 100	l.	100					250		-	1,000		-	-			* ****	,		6-AE	9		(NIS)	8-B
	Ç		R-F Amp.	R-F Amp. #	Amplifier	Hep. Mixer	fri. Osc.		Det. Amp.	R-F Amp.	Amplifier (per unit)	Converter	Det. Amp.	Hen. Mixer	Tri. Osc.	R-FAmp	R-F Amp.	R-F Amp.	H-W Rect. Doubler	Det. Amp.	Has special mechanical and/or life characteristics. With Average Power Input of 320 Mw. Grid to Grid. For two tubes with 40 volts RMS applied to each grid				4	(e)		
2	2	-		=	7.0	7.5		\dashv		6.5	9.0	0.6	5,3	8.0		7.0	6.5	7.0		:	116 char 320 Mw. 45 applie			6-AA	3			8-AL
Lote (') (in muf.				0.8 E	4.6			+	0.8 F	4.0.	0.6	5.6	5.0		0.8	H	9,5		:	r Input of 0 voits RI		3 0			3		
			.006m	0.15m	.004m	.03m			00	.010m	0.0	0.15m	.004m	.03m		.005m	.002m	.002m	:	:	I mechanicage Power bes with 4			2-D	50		A	8, AE
			-		0.30	0.30	_	-	_		09.0		0.30	0.30		0.3	0.45	0.45	6.	0.30	las specie Vith Ave or two tu					- DI		œ e
	E-Bitter				de 6.3	Je 6.3			de 6.3		e 6,3	ie 6.3	e 6.3	6.3		Je 6.3				le 6.3	©:%‡		9	7			5	
		Type	Cathode	Cathode	Cathode	Cathode			Cathode	Cathode	Cathode		Cathode	Cathode		Cathode	Cathode	Cathode	Cethode	Cathode	o plate;			S-AC	50	0.0		8-AC
	Basing	Diag.	8V-L-5	8BV-L-0	8V-L-5	8BL-L-7				8V-L-5	8AC-L-0	8AL-L-0	8AE-L-7	88L-L-7		8V-L-5	8V-L-5	8BJ-L-5	7DX-L-0	8BZ-L-4	ed with (*). signal grid t				9			(
	Construction	Class	Pentode	Duotetrode	Pentode	Tri. Heptode			Duodiode Tri.	Pentode	Duotriode	Heptode	Duodi. Pent.	Tri. Heptode		Pentode	Pentode	Pentode	Duodiode	Duodiode Tri.	Values are given shielded unless marked with (*), Converter tube capacilances given are signal grid to plate; RF Input, Mixer Output.			HA-4	3		SO S	8-A
	Bulb Size	or Style	Lock-in	Lock-in	Lock-in	Lock-in			Lock-in	Lock-in	Lock-in	Lock-in	Lock-in	Lock-in		Lock-in	Lock-in	Lock-in	Lock-in	Lock-in	iven shielde se capacitar xer Output.			X .	17			
	Type		767	7G8	7H7	717			TX7	71.7	ZNZ	707	787	757		777	TVT	7₩7	1X6	7X7	(1) Values are given shielded unless marked with (*) (2) Converter tube capacitances given are signal grid RF Input, Mixer Output.		I I I	4-AC	(8)		(NIX)-	7-S

SYMBOLS FOR BASE DIAGRAMS:

A—Anode 3, A1—Anode 1, A2—Anode 2, D1—Deflector 1, Dp—Diode Plate, F—Filament Center, G—Control Grid, Ga—Anode Grid, Gm—Modulator Grid, Go—Oscillator Grid, GG—Quadrature Grid, GS—Screen Grid, H—Heater, Hc—Heater Center, Ht—Heater Iap, IC—Internal Connection, J—Jumper, K—Cathode, NC—No Connection, P—Plate, Rc—Ray Control, S—Metal Shell, SA—Starter Anode, Su—Suppressor Grid, T—Target, XS—External Shield, □—Top Cap, ————Locating Pin.

>-8

8-BZ

700

(Gs)

S
0
1 C
S
02
CTE
-
65
4
C
4
CE
4
O
Ш
E S
4
02
E
4
ı
S
ш
00
7
H
4
-
Z
4
7
>
S

8	YL	VA	NIA	1	UB	ш	40	4	VE	C	D A	ш	CH	A	RA	CTI	E	ISI) I L	S
3		Construction	E	Emitter	les.	žŠ	Note (¹) (²) Capacitances in μμί.		3		Negative		Plate	Screen	Plate	Transcon-	Ampli-	Load of for	Undis- torted Power	T.
adkı	Bulb Size or Skyle	Class	Basing Diag.	Type Volts	lts Amps.	Cgp.	Ġ.	Court		Volts		Voits			Ohms	Micromhos		Power	Milli- wefts	244
174	Lock-in	Duodiode	SAB-L-0	Cathode 6.3	0.50	-	:	:	F-W Rect.	325 A-4	Volts Per	325 A.C Volts Per Plate, RMS, 70 Ma. 450 A.C Volts Per Plate, RMS, 70 Ma.	70 Me. Ou	Output Current.	t. Condense. Choke Inc	Condenser Input to Filter. Choke Input to Filter.	er.			174
124	Lock-in	Duodiode	5AB-L-0	Cathode 6.3	0.90		:	:	F.W Rect.	325 A-450 A-6	Volts Per	325 A-C Volts Per Plate, RMS, 100 Me. Output Current. 450 A-C Volts Per Plate, RMS, 100 Me. Output Current.	100 Me. O	utput Curre		Condenser Input to Filter. Choke Input to Filter.	Iter.			124
10	ST-16	Triode	4D-0-0	Filament 7.5	1.25	7.0*	4.0*	3.0*	Power Amp.	950 950 550	23.5 32.0 40.0		0.00			1,330	000	13,000	000	10
12A	ST-14 T-61%	Triode	4D-0-0	Filement 5.0		8.5*	4.0*	2.0*	Det. Amp.	180	13.5	01	7.7		4,700	1,800	8.5	10,650		12A
	7/2				-	+	: 6	: :		00,					4 000 01			004	-	
12A5	-	Pentode		Cathode 12.0 6.3	0.00	0.3	0.:	0.0	Power Amp.	180	20.00	180	45.0	000	35,000	2,400		3,300	3,400	12A5
12A6GT	+	Beam Amp.	75-0-0	Cathode 12.6					Power Amp.	250	12.5		30	3.5	70,000	3,000		7,500		12A6GT
12A7	-	Diode Pent.				:	:		H-W Rect. Power Amp.	125 RMS	13.5	135	30.0 Max. 9.0	.10	102,000	975	100	13,500	550	12A7
12A8GT 12AH7GT	5 5	Hepfode Duotriode	8A-1-0 8BE-0-0	Cathode 12.6 Cathode 12.6	0.15	3.0	9.5 5.8	12.0	Converter	Characte 100	Characteristics Same a	s Type	6A8G.		10,300	1,550	16			12A8GT 12AH7GT
		-	70207	\rightarrow	-+	-	9.0	3.0	(per unit)	180	6.5	T A	7.6	:	8,400	1,900	16			20400
12AC5	Minieture T-51/2	Beam Amp.	78Z-0-0	Cathode 12.0	-+	5 0.35*	*E. 00	***	Power Amp.	Characte	ristics Same	Characteristics Same as Type 6ACS	D5.							12AQ5
12AT6	Minieture T-61/2	Duotriode Duotriode	9A-0-0	Cathode 12.6	0.30	1.45*	. 6164 17.30	0.45*	Ampliffer	100 180	ristics Same	100 1 3.180 1 1.100 1 1.100 1 1.100 1 1.100 1 1 1.100 1 1 1.100 1 1 1.100 1 1 1.100 1 1 1.100 1 1 1.100 1 1 1 1	3.7	::		4,000	54		:::	12AT7
21400		Dantode	7DV 0 0		-	+	1	*0	P.F Amo	250	Pietice Same	Characteristics Same as Type 6A116	0.0			5,500	55		:	10 0116
12AU7	T-6½	Duotriode	9A-0-0	Cathode 12.6 6.3	0.15		1.6	0.50*	Amplifier	100	0.5		10.5		7,700	2,200	19.5	:::	: :	12AU7
12AV6	2	Duodiode Tri.		-	+	Η,	: 0	: (Det. Amp.	Characteristics	Same	as Type	V6.		0077	4 400				12AV6
12AV7	T-61/2	Duotriode	0-0-V6	Cathode 12.6 6.3	.450	-		1.3	Amplifier	150	Self		18.0		4,800	8,500	4	11 11	120 Ohms) 56 Ohms)	12AV7
12AW6	Miniature	Pentode	7CM-0-7	Cathode 12.6		.025m*	* 6.5*	1.5*	R-F Amp.	1 250	Self	120	0.7.0	0 - 0	0.8 Meg.	5,000 1,100 1,000		**************************************	200 Ohms) 100 Ohms) 100 Ohms)	12AW6
12AX4GT	6-1	Diode	4CG	Cathode 12.6	1 1	\perp			T.V. Damper	P.I.V. =	4,000 V	×	D-C Plate Current	= 125	Ma. Max.			1		12AX4GT
12AX7	1-6½	Duotriode	9A-0-0		0.15	1.7*	1.6*	0.46*	Ampliffer	100	- 04		1.2	: :	80,000	1,250	98		: :	12AX7
12AY7	1.61/2	Duotriode	9A-0-0	Cathode 12.6	-		1.3*	_	Audio Amp.#	100	4.0 Ne.10	_	3.0		15 000	1,750	04	: 1		12AY7
12821	1.0%	Decinona	2-0-4		-		3.5	. 0		250	Self		10.0		10,900	5,500	38	(Rk = 20	200 Ohms)	17WZI
12B4	T-61/2	Triode	9AG	Cathode 6.3			6.2	9.4	Power Amp.	150	17.5	:	35	:		6,500	6.5	:	:	1284
12B7	Now	Known as Type 14A7 Pentode Tri. 8T-0-1	pe 14A7 8T-0-1	Cathode 12.6	5 0.30	.015*	5.2*	*9.6	Pent. Amp.	06	3.0	8	7.0	2.0	200,000	1,800		(Pentode Section)		12B8GT
1000		Pentode	7RK.0.0	_	-		2.0	6.3	Tri. Amp.	Character	istics Same	Characteristics Same as Type 68 A 6.	6.6	:::	35,000	2,400	06	(Triode		12BA6
12BA7	T-61/2	Heptode		\rightarrow	++	\vdash	9.5	8.3	Converter	Characte	ristics Same	Characteristics Same as Type 6BA7	17.							12BA7
128D6 19RF6	Ministure	Pentode	7CH-0-0	Cathode 12.6	-	0.004	4.3	0.0	Converter	Characte	ristics Same	Characteristics Same as Type 6BE6.	6.							12BE6
12BF6	Miniature	Duodiode Iri	. 7BT-0-0	Cathode 12.6	1	+-	1.8	1.1	Det. Amp.	250	0.6		9.5		8,500	1,900	16			12BF6
12BH7	T-61/2	Duotriode	9A-0-0	Cathode 6.3	0.00	0i 0i 4 4	0.0	0.0	Amplifier Defi. Amp.	250 350	10.5 Self	01 : : : : : : : :	20 11.5 16.	: : :		3,100	- 1	(Rk = 560	Ohms)	12BH7
12BK6	Ministure	Duodiode Tri.	. 7BT-0-2	Cethode 12.6	0.15	:	:	:	Det. Amp.		1.0		10.5	:::	80,000	1,250	100	: :		12BK6
12BN6		Pentode	1	Cathode 12.6	0.15				Limit Discrim.	65.	1.3 0	9	0.23	5.	4 000	000	C.F.			12BN6
12876	-	Duodiode Tri.	_	_				:	Det. Amp.	250	3.0		×0.		38,000	200	20		: :	12810
12BU6		Duodiode Tri.		Cathode 12.6			:	:	Det. Amp.	100	0.00		0. IO		11,000 8,500	1,500	16.5	10,000	300	12BU6
12877	T-6½	Pentode	9BF	Cathode 6.3			11.1	3.0	Video Amp.	250	-89 	150 . 8	10	0.0	.11 Meg.	12,000	28 **	• • • • • • • • • • • • • • • • • • • •		12877
12BZ7	T-61/2	Duotriode		Cathode 6.3			6.5		Sync Sep. or Amplifier #	250	ot	:	10.01		31,800	3,200	100	Cout Se = 0.7	Sec. 1 7 µµf.	12BZ7
12C8	-	Duodi. Pent.	8E-1-1	Cathode 12.6			0.0	0.0	Det. Amp.	Character	istics Same	as Type 6B8	16							12C8
12E5GT	GT	Triode	60-1-0	Cathode 12.6		2.6	3.4		Ampliffer	100	13.5	100 5.0 2.0 2.0 2.0 5.0	20.00		12,000	1,150				12E5GT
12F5GT	TS.	Triode	5M-0-0	Cathode 12.6	0.15		2.2*	3.2*	Amplifier	Character	istics Same	Characteristics Same as Type 6F5GT.	GT.							12F5GT
1204	1-372	111000		בפוווסת ודים	7	+	2.	4:5												
										-rage 20-										

CHARACTERISTICS AVERAGE TUBES-SYLVANIA

						in µµf.	ut.			_			Plate	_		Transcon-	Ampli-	-	Power	
Type Bulb Size or Style	ie Class	Basing Dieg.	Type	Volts A	Amps.	Cgp.	1 1	Cout	Use	Plate Volts	Grid Volts	Screen Voits	Current Me.	Ma. Ma.	Resistance Ohms	ductance Micromhos	fication Factor	Stated Power Output	Output Milli- watts	Type
12H4 T-51/2	Triode	7DW	Cathode 6.3		w,		-	3.2	Amplifier	90	0 00	1	9.0			3,000	080	-		12H4
_	۵	70-1-1	-	1			Н		Н	Characteris	tics Same	Characteristics Same as Type 6H6.							12	12H6
1205GI GI	Iriode	00-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	Cathode 12	12.0	0.15	30.00	4.2	5.0	+	Characteris	tics Same	Characteristics Same as Type 6J5GT	.T.						12	12J5GT
	Pentode	7R-1-8	_	_	+	_	+	+	D-F Amp	haracteris	tics Same	Characteristics Same as 1ype 61/G.	2 (4						100	12J7GT
	-	8K-1-8	+	+	-	-	+	+	+	haracteris	ics Same	Characteristics Same as Type 6K8GT	15						1000	10/0
12K8GT GT	+	+	Cathode 12	+-	+	.08m	+	+-	+	haracterist	ics Same	Characteristics Same as Type 6K8GT.	3T.						101	TOKRGT
		-	Cethode 19	-	-	-	34	4	á	110	10.00	110	6.1#	1.3#	#000'007	1,680#		14,000#	300# 126	12L8GT
107.CT				-	+	+	+	+	+	180	0.6	180 1	3.0#	4	#000'09	2,150#			-	
	Duodiode Iri.	8-1-7		+	+	0.	2,50	5.0 D	1	haracteris	tics Same	Characteristics Same as Type 6Q7GT	GI.						120	12Q7GT
		8CB-0-2		+	+	+	+	+		haracteris	tics Same	Characteristics Same as Type 658GT.	51.						120	12S8GT
125A/ Metal	+	8K-1-0	-	+	+	F .	+	+		haracteris	tics Same	Characteristics Same as Type 05A7	1.						120	125A7
	+	0.1.0	Cathode 12	+	0	EC.	+	+	+	naracteris	CICS SAME	Characteristics Same as Type OSA/GI	5				,		123	125A7GT
Metal	Triode	O O O O O		40 40	2 2 2	-	Z,Z	2,0	+	"Laracteris	Sume Some	Characteristics Same as 1904 03C/1.							1 2	1250/
19SERGT GT		AAB O O		_	+		+	+	Amplifica	haracteris	ice Came	Characteristics Same as 1906 OSF3.	CT.						122	12513
_	۵	7AZ-1-0		+	4	74m	-	+	+	haracterist	ice Same	Characteristics Same as Type 6SF7							12555	125F5G1
	+	8BK-1-1		+		1_	+	+		haracterist	ics Same a	Characteristics Same as Type 6SG7.	7.						125	125G7
19SH7 Metal	I Pentode	8BK-1-0 8BK-1-1	Cathode 12	12.6 0.	0.15	.003m	5.5	7.0 R	-	Characteris	tics Same	Characteristics Same as Type 6SH7	7.						120	12SH7
ues are given shir	(1) Values are given shielded unless marked with ("). (2) Converter tube capacitances gives are signal grid to plate,	ed with (*).		Has sp	Decial med Average F	(3) Has special mechanical and/or life characteristics. §§ With Average Power Input of 320 Mw. Grid to Grid.	d/or life t of 320	characteri Mw. Grid	istics.	* App	Slied throu	Applied through 250,000 ohms. Per Tube or Section.		□ Applied the Conversion	Applied through 20,000 ohms.		+ Pentode	Pentode Operation.	m maxi	m maximum Cuthode Resistor
Input, Mixer Out	tput.			For tw	ro tubes w	ith 40 volt	s RMS	pplied to	each grid.	> Plate	e and Targ	et Supply Va	oltage.	** Triode Or	seration.		Approximate	imate.		Service Mean
	1	R	6	K		(a)	FE	6	100				\(\sigma_{\sigma}\)	(C)		100	()	7		- (m)
3	TY V	1		Te.	K	100	No.	7		×			()		(a) (a)		きく	5		×
				2			1		2 (6)	9	2 2						3	3		
		3	< D		T)			2/1	To The state of th	\(\frac{1}{2}\)				K			7			
				J	NAC STATE OF THE S		(1) T						1		7					7
4-CG	4-D	- IA	5-AB		2-W		0	6-AB	9	6-BG		6-BT		0,9		7-AZ		7-8K	7.	7.81
(9)	(1	: (-		4		-	-		4		(=		(((,	(
(1) (a) (2) (x)	19 (a) 18 (x)	T. T.	\$\frac{1}{2}\cdot \frac{1}{2}\cdot \frac			(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	T.	(1)	3	(S)	29	3	(m)		Z.	(3)	Z.			
	3	× × × × × × × × × × × × × × × × × × ×		2 6		19(8)	4		K To				2	000	?		1			ח
		为上口				I I	4		T TO THE TOTAL TOT		100		DE THE	一大人人	THE THE	E K	THE THE PERSON NAMED IN COLUMN TO PERSON NAM			() () () () () () () () () ()
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		3	3 ×			1	2	3				XE XE	\ \ \	(NC) (R)	3	NC) - N		N I ON	(O)E	
		<i>J</i> '		/) 1	\	// 1		7	10		A			7		7		7	
78-1	7.CH		7-cm		5		•	*a-/				٧-١		7		¥ [1-S		۸-/
3	3	E.		A	F. C.	_	F.	A.	Table 1	5	Par.	9	-	5	-		E.		E	FE
		3/6	Je de la company	75.		3)	- >				Ž.	3	J.		1	3	3,6	10	3)	To the second se
			0:0	2		£ 5				う人			S I				2			
				Y.	IS IS			15 X			(a)	Q K	18		3				The state of the s	
	3 22			7	(a) (SN)	X	(3)	(a) (a)		K K	<i>3</i>		2	1		THE SECOND SECON	7	3	(S) N	NO THE
		7	B.B.	7	A	7	4				7		7	10000000000000000000000000000000000000	H	THE STATE OF THE S	7		F	
&-&	8-AD		10-0		& EX		00	8-BU	00	8-CB				3-8 E		%- X-		×-		ος V
		F	A		TO THE	6	F	F.	K	A T	-	19 19	-	A A	4					
		700	F.	Te.		1	3			8	F	\(\frac{1}{2}\)	S. S.							
				(C						9	7		(3) (3)		1361					
			3	IN IN	K	750		P K	1		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	2 1	78 T (GE)	②	Q.	10 K				
						1	Θ				S		7	(m)	3					
		7				}	7) A-0		0.40	/) Ja-o	5/					
					> 0			///						7"[3]		N J D				

-Flate, Rc-Kay Control, S-Metal Shell, SA-Starter Anode,

SYLVANIA TUBES - AVERAGE CHARACTERISTICS

	ted Output Type		125.77	125.761	12SK7GT	12SL7GT	12SN7GT	19507	1950761	19SR7	(2 Meg. Grid Res.) 125W7	_	(.05 Meg. Grid Res.) 125X7GT		5,500 8,500 12V6	12X4	12.73	7 500 0 800 14A4		14AF7/XXD	1486	1488	14C5	14C7	1454	1467	14F7	14F8	14H7	1477	1407	1487	1457	14W7	14X7	1474	10	00	10,000 1900 19	4	198G6G		= 810 Ohms)	-	161	9761		000	130	000	130
	Ampli- for fication Stated										-	-	20 0.05		In in			7						:													450		000			100	(Rk			70		101			70 70 3.5 3.5 3.5 3.5 600 530 Signel.)
	Transcon- Ar						The state of the s				001	006	3,800 3,000 500 500	450▲	3,700		to Filter.	3 000						2,275											to Cites	. 1						1,250	000			000	1,300	000 000			7 du
												_					Condenser Input to Filter.																			e Input to	88		(Class B Operation) (Class B Operation)				_		_	_	_	_		000000	Ž
	Plate Resistance	5									15,5	8,500	11,500 6,700 7.700	1 Meg. 4	20,000			40000						400,000										.68.	9===	rent. Chok	800,000					000'08	10,2		54,000	0,80	0,80	0,80	7,800	7,800 7,800 5,850 250,000 400,000	7,800 5,850 250,000 400,000 600,000 adjusted to 0.1
	Screen	Na.		Characteristics Same as Type 6337, Except Capacitances.							:		: : :	8,5	es 4.		235 A-C Volts Per Plate, RMS, 55 Ma. Output Current.	2						8.0	3									Characteristics Same as Type 7V7, Except Capacitances	3,114	323 A.C. Volts Per Flate, RMS, 70 Ma. Output Current. Choke Input to Filter.	0.0		::						:					1.7	1 1 1 41
	Plate Current	1918	55.17.	SSK7	SSK7GT.	SSL7GT.	SSN7GT.	6507.	6SO7GT	6SR7.	1.1	9,5	:::	3.5	29		15, 55 Ma.	30.0	7A7.	7AF7.	7B6.	7B8.	7C5.	5.7	756	7E7.	7F7.	7F8.	7H7.	7,17.	707	7R7.	757.	7V7, Excep	7X7.	45, 70 Ma.	1.85	6F6G.	0.4.0	5	6BG6G.	0.5	4.8	6T8.	80,0	>	2	2. 00.4	1 1 1	3.7	9.00 8.00 4.00 4.00 4.00 4.00 4.00 4.00 4
	Screen	A OIG	e as Type	ne as Type	e as Type	e as Type	ne as Type	ne as Type	ne as Tybe	ne as Type				100	180	X4.	er Plate, KA	oso lype	ne as Type	me as Type	me as Type	me as Type	me as Type	95	me as Type	me as Type	me as Type	me as Type	me as Type	me as lype	ne as Type	ne as Type	ne as Type	ne as Type	ne as Type	er Flate, R.	67.5	ne as Type	: :					ne as Type	:				67.5	67.5	67.5 90 90 20 to 45
	Negative Grid	ا نشدنند	Characteristics Same as Type 6SJ7	Characteristics Same as Type 65377	Characteristics Same as Type 6SK7GT.	Characteristics Same as Type 6SL7GT.	teristics Sar	cteristics Sar	Characteristics Same as Type 6SO7GT	Characteristics Same as Type 6SR7.	5 Self		% O &			Identical to the 6X4	V-C Volts P	Characteristics Same as 1ype / A.4.	cteristics Sar	Characteristics Same as Type 7AF7	Characteristics Same as Type 7B6.	Characteristics Same as Type 7B8.	Characteristics Same as Type 7C5.	0.0	rherich	Characteristics Same as Type 7E7	Characteristics Same as Type 7F7.	Characteristics Same as Type 7F8.	Characteristics Same as Type 7H7	Characteristics Same as 1ype 7J7.	Characteristics Same as Type 707	Characteristics Same as Type 7R7.	Characteristics Same as Type 757	cteristics Sa	Characteristics Same as Type 7X7	A-C Volts	7.5	eristi	0.00	Same as 6AQ5.	Characteristics Same as Type	1.0	Self	Characteristics Same as Type 6T8.	0.0	2.0	16	3 -0	3 - 01	9 - 0	(S) 1-04
	Plate	A COID	-	-	+	1		+-	+-	+	+-		26.5 90 250	+	180 250		+	-	+					100	+	+			+		+	-			Chara			-							100		╄				
	Use		R-F Amp.	R-F Amp.	R-F Amp.	Amplifier	Amplifier	Det. Am	Det. Amp.	Det. Amp.	Det. Amp.		Amplifier	Converter	Power Amp	F-W Rect.	H-W Rect.	Power Amp	R-F Amp	Amplifier	Det. Amp.	Converter	Power Amp.	R-F Amp.	Det Amn	Det. Amp.	Amplifer	Osc. Amp.	R-F Amp	Mixer Osc.	Converter	Det. Amp.	Mixer Osc.	R-F Amp.	Det. Amp	F-W NECK	R-F Amp.	Power Amp.	Power Amp.	Power Amp.	Power Amp.			Det. Amp.	Det. Amp.		Osc. Mi	Osc. Mix. Power Amp.	Osc. Mi Power Am	Osc. Mis Power Amp R-F Amp. R-F Amp.	Osc. Mix. Power Amp. R-F Amp. Detector
		Cont	7.0	7.0	7.5		:	3.0	3.4	3.0	60.		0.8 1.2 *	1	7.5			3.0	7.0	1.6*	2.4	0.6	9.0	6.5	70	5.5	#0.2	1.4#	7.0	7.5	0.6	5.3		7.0		:	*0.8	::	:		6.5*		0.4*	k T	:		:			10.0*	10.0*
Note (¹) (³) Capacitances	in µµf.	Çin.			6.5	L	:	3.8	4.9	3.0	3.0		3.0 8.8 8.	:	0.6			4.6	6.0	2.2*	3.0	10.0	9.5	0.9	30	4.6	2.4#			4.0	0.0	5.6	5.0	9.5		:	2.4*	:	:		11.0*	:	2.0*						*0*	5.3	4,0*
Zā		Cgp.	.005m	.003m	.005m	:	:	1.6	00	6.3	2.4		3.6*	1 1	0.7		: 4	4.0	.003m	2.3*	1.5	0.2m	0.4	.004m	A	.005m	1.6#	1.2#	.004m	0.03m	0.15m	.004m	.03m	.002m	:	:	.01m	:	:	:	0.65*		1.5*	2.4*						.002m	.00m
		Amps.	0.15	0.15	0.15	0.15	0.30	0.15	0.15	0.15	0.15		0.30	0.15	0.225	0.45	0.30	0.13	0.15	0.15	0.15	0.15	0.225	0.15	0 15	0.15	0.15	0,15	0.15	0.15	0.30	0.15	0.15	0.225	0.15	0.30	0.22	0.30	0.26	0.15	0.30	0.15	0.15	0.15	0.15	3	0.15	0.15	0.132	0.15 0.132 0.132 1.75	0.132
Emitter		Volts	12.6	12.0		12.6	12.6	12.6					12.6	_	12.6	12.6		12.0	12.6	12.6	12.6	12.6	12.6	12.6	10 6			12.6	12.6	12.6	19.6	12.6	12.6	12.6	12.6	12.0	0.0	14.0	2.0	18.9	18.9	18.9	18.9	18.0	1	- C					18.9 3.3 3.3 2.5
		Type	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode		Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathoda	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Filament	Cathode	Cathode	Cathode	Cathode	Cathode		Cathode	Cathode	Cathode Cathode Filament	Cathode Cathode Filement	Cathode Filament Filament Cathode	Cathode Filament Filament Cathode
		Diag.	-1-N8	8N-1-1	8N-1-5	8BD-0-0	8BD-0-0	80-1-3	8O-1-3	80-1-1		\rightarrow	88D-0-0	8R-1-0	75	5BS	46-0-0		8V-L-5	8AC-L-0	8W-L-7	8X-L-0	0-T-W	8V-L-5	7. I.W.		8AC-L-0	8BW-L-0		88L-L-7	8AI-1-0	8AE-L-7	1		88Z-L-4	2A6-L-0	5F-0-4	6B-0-0	0-0-09	_	_			9E-0-3 & 7		2-0-11-0-2					
Construction		Class	Pentode	Pentode	Pentode	Duotriode	Duotriode	Duodiode Tri. 8Q-1-3	Dundinde Tri. 80-1-3	Duodiode Tri.	Duodiode Tri.		Duotriode	Heptode	Beam Amp.	Duodiode	Diode	Priode	Pentode	Duotriode 8AC-L-0	Duodiode Tri.	Heptode	Beam Amp.	Pentode	Dundinda Iri	Duodi. Pent.	Duotriode	Duotriode	Pentode	Iri. Heptode	Hentode	Duodi. Pent.	Tri. Heptode	Pentode	Duodiode Tri.	Duodiode	Pentode	Pentode	Duotriode	Beam Amp.	Beam Amp.	Triple Dio, Tri.	Duotriode	Triple Diode Triode	Triple	Diode Triode	Diode Triode	Diode Triode Tri. Pentode Triode	Diode Triode Tri. Pentode Triode	Diode Triode Triode Triode Tetrode Tetrode	Diode Triode Triode Triode Tetrode Tetrode
		or Style	Metal	Metal	GI	ST	GT	-	+	-	+		5	Metal	Q-T	T-51/2	ST-12	Lock-in	Lock-in		Lock-in	Lock-in	Lock-in	Lock-in	I och in	-	+	Lock-in	Lock-in	Lock-in	Lock-in	Lock-in	+	-		Lock-in	ST-12	ST-14	ST-12	T-51/2	ST-16	T-61/2 T		1-61/2	T-61%	-					
	Type		125.7	125.7GI	12SK7GT	12SL7GT	18SN7GT	19507	19507GT	19SR7	125W7		125X7GT	12577	12/6	12×4	18Z3	1484	14A7	14AF7/XXD	1486	1488	14C5	14C7	4 454	14E7	14F7	14F8	14H7	1437	14N/	14R7	14S7	14W7	14X7	1474	15	18	19	19AQ5	19BG6G	19C8	1916	1978	1978		19X8	19×8	19×8	19x8 20 245 245	1978 20 20 248 245 245

STICS CHARACTERI AVERAGE ES 00 YLVANIA S

	Type	25A7GT	25AC5GT	25AV5GT	25AX4GT	2586G	25B8GT	25BK5	25BQ6GA	25BQ6GT	25D8GT	m meximum Cathode Resistor				6-AA	a a	8-AE	S dd		0.8			
Undis-	Milli-	770	2,000			2,400	(Pentode Section)	Section)											33				Ta)	
Ohms	Stated Power	4.500	2,000			1,700	(Pentod	(Triode				Pentode Operation.	timate.			io F		8-AC			N. W.		200	1
1100	fication		60				370	112.5		,	100	† Pentod						7	8	2 1 7	5	w w		/
	ductance	800	,800 river.			008	2,000	2005		•	1,100	ohms.				5.E		7-S	9	01	8-F			1
		00	AESGT D		ıx.	-	+					h 20,000 sconducta	,					2)7	3		4			1
10	Resistance	ent, 50.00	15,20 rd with 6,		5 Ma. Ma	15,50	185,000	75,00			91,000	Applied through 20,000 ohms.			(S)	7	n 3	Ř	() () () () () () () () () ()		\		600	187
3	Current Ma.	Output Curr	H15 45.0 15,200 3,800 Bias from 6AE5GI/G 46.0 Dynamic Coupled with 6AE5GI Driver.		P.I.V. = 4,000 Volts Max. D.C. Plate Current = 125 Ma. Max.	0.0	2.0		68Q6G.		2.7	□ Appli Conve	a.			2-BT		7-8Z	A STATE OF THE STA		8-8Z			1
	Current Ma.	75 Ma. O	.0 5.0 Dynar	5GT.	Plate Curr	j 00	90.	0		GT.	2010	GT. hms.	90		The State of the s		N N	- /	9		/		(C)	
-		Per Plate, RMS, 75 Ma.	45 5GT/G 44	ype 6AV	lax. D.C.	105 16.0 105 48.0			Characteristics and Ratings Same as Type	Characteristics Same as Type 6BQ6GI.	8.5	Characteristics Same as Type 25L6G1. Applied through 250,000 ohms. # Per Tube or Section S Plate and Tenet Surniv Voltage			3))	2-BS		7-BF			8-BW			
	Screen	ts Per Plat	rom 6AE	Same as T	Volts M	105			ind Rating	Same as Ty	100	through Strong or Section						<u> </u>			S SS			
Z	S Colts	- ×	+15 Bias fi	scteristics (4,000	16.0	+-	Same as 6BK5.	cteristics a	cteristics	1.0	Applied Per Tube			W = 0				99		2	4		_
	Plate Volts	117					+	1				Char				5-AC		O,			B.B.			
	Use	H-W Rect.	Power Amp.	Horiz, Amp.	Damper	Power Amp.	Pent. Amp.	Power Amp.	Horiz, Amp.	Horiz, Amp.	Det. Amp. R-F Amp.	Power Amp. teristics. Grid to Grid.	To Italia				(e) Ja		Te Co				TEX TEX	
	Cout	1	:	-	:		+		7.5* H		. 4	13.5 P				2-AB		9-9			8-BL			No. of Street, or other
Note (¹) (¹) Capacitances	5	: 1	:			: :	5.5	+	*	-	3.7*	and/or lii				-, \			3		7	3		
Z Z Z	S. S.		1	:			20.0	x.x 0.6	.90	*9.0	2.5* .015m	25.0 0.30 0.3 16.0 13.5 Power Amp. (3) Has special mechanical and/or life characteristics. §§ With Average Power Input of 320 Mm. Girld to Grid. For two timbes with 40 volte RMS anniesd to sew arish.		3		,	(a)	000			1			
	Amos.	0:30	0.30	0.3	0.3	0.30	0.15	0.3	H	0.3	-	Special m				1 1		→ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			8-8			7
Emitter	Volts	25.0	25.0	25.0	25.0	25.0	25.0	25.	25.0	25.0 or 0	25.0	-		5			W T		35					
	Type	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode plate,				4-G		29			8-8D)
	Basing Diag.	8F-0-0	0-0-0-0	6CK-0-0	4CG	0-0-	81-0-1	980	AM-0-0	6AM-0-0	8AF-0-1	75-1-0 i with (*). gnal grid to		11			m line		3	x=-/	- de			1
Construction	-	œ										Amp. 7. marked v		9					(a)	5/4	À .	(a)		1
Const	Class	ŏ	Triode	Pentode	Diode	Pentode	Pentode Tri.	Beam Amp.	Beam Amp.	Beam Amp.	Diode Triode	ded unless mark				d-1		9,	-3		8-AL			1
	Bulb Size	GI	GI	GI	6-1	ST-12	GT	T-61/3	T-11	10	GT	Metal jiven shield be capacit	da la company	55			N 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		E S			(8)	To	
	Type	25A7GT	25 AC5GT	25AV5GT	25AX4GT	25B6G	25B8GT	25BK5	25BQ6GA	25BQ6GT	25D8GT	25L6 Metal Beam Amp. 175-1-0 Cath (1) Values are given shielded unless marked with ("). (2) Converter tube capacitances given are signal grid to plate; RF Innut Milves Curbuit	(5)		K A	D =		We-9			8-AF			

SYMBOLS FOR BASE DIAGRAMS: A-Anode 1, A2-Anode 1, A2-Anode 2, D1-Deflector 1, Dp-Diode Plate, F-Filament, Fc-Filament, Fc-Filament Center, G-Control Grid, Ga-Anode Grid, Gm-Modulator Grid, Gm-Modulator Grid, Ga-Screen Grid, H-Heater, Hc-Heater Lap, IC-Internal Connection, J-Jumper, K-Cathode, NC-No Connection, P-Plate, Rc-Ray Control, S-Metal Shell, SA-Starter Anode, Su-Suppressor Grid, I-Target, XS-External Shield, Gap, -->Locating Pln.

SYLVANIA TUBES - AVERAGE CHARACTERISTICS

																		1		1	
4		Construction			Emitter		zg	Note (¹) (²) Capacitances in µµf.		.4		Negative		Plate	Screen	Plate	Transcon-	Ampli-	Cond for	Undis- torted Power	
	Bulb Size or Style	Class	Basing Diag.	Type	Volts	s Amps.	Cgp.	Cin.	Cout	Š	Volts		Volts	Ma.	Ma.		Micromhos	Factor	Power	Waffs water	Abe
25L6GT	GI	Beam Amp.	12-0-0		25.0	0.30	0.8×	15.0*	10.0*	Power Amp.	110	7.5	110	49.0	0.04	13,000	9,000		3,000	8,100	25L6GT
25N6G	ST-12	Duotriode	7W-0-0	Cathode	25.0	0 0.30	:	:	:	Power Amp.	110	00		45	7.0	(Direct Coupled)	2,200		2,000	3,800	25N6G
255		Now Known as Type 1B5	pe 185							4											255
25 W 4 G I	15	Diode	4CG-0-0	Cathode	100 100 100 100 100 100 100 100 100 100	0.30	: 2	. M	. 0		350 A-	C Volts R	A-C Volts RMS, 125 Ma. D-C	a. D.C Output.	out. Conder	Day 1	liter		0000	0000	25W4GT
IDO M CZ	<u> </u>	Deam Amp.	61	Cathode	23.	6.5	6.0	<u> </u>	2.		225 **	-30	2	22**	2.	1,600 4**	3,800**	6.2**		00 L'X	I Do W cz
25×6GT	GT	Duodiode	70-0-0	Cathode	25.0	0.15	:	:	:	H-W Rect. Doubler	125 Vol.	Its RMS Per	r Plate, 60 N	Ma. D-C O	utput Per Pla						25X6GT
2575	ST-12	Duodiode	6E-0-0	Cathode	25.0	0.30	i	:	:		117 A-C	Volts Per	Plate, RMS	Output Cun	117 A-C Volts Per Plate, RMS, 75 Ma. Output Current.	-1					2575
25Z4	Metal	Diode	5AA-1-0	Cathode	25.0	0.30	:	:	:		117 A-C	Volts Per	Plate, RM:	5, 125 Ma.	117 A.C Volts Per Plate, RMS, 125 Ma. Output Current.	1	Condenser Input to Filter.	iter.			2524
25Z5	ST-12	Duodiode	6E-0-0	Cathode	25.0			:	:	Doubler	Character	ristics Same	Characteristics Same as Type 25Z6GT	Z6GT.							25Z5
8526	Metal	Duodiode	70-1-0	Cathode	25.0	0.30				Rectifier	Characte	ristics Same	Characteristics Same as Type 25Z6GI	.Z6GI.							25Z6
25Z6GI	15	Duodiode	70-0-0	Cathode	25.0		:	:		Doubler H-W Rect.	117 A-0	C Volts Per	AS, 75 Ma.	S, 75 Ma. (Output Cui	117 A-C Volts Per Plate, RMS, 75 Ma. Output Current 235 A-C Volts, RMS, 75 Ma. Output Curent Per Plate.						25Z6GT
56	ST-14	Triode	4D-0-0	Filament	7.	1.05	*	0.1 x	¥5.5	Amplifier	135 180	10.0	: : :	0, 12, 0 0, 12, 01	: : :	8,900 7,600 7,300	935	8 9 9 9	:::		56
26A6	Miniature	Pentode	7BK-0-2	Cathode	26.5	0.07	.0035	0.9	5.0	R-F Amp.	26.5	Self	26.5	1.7	4.0	250,000	2,000	(Grid Le	(Grid Leak Bias = 2 N (Rk = 125 Ohms)	2 Meg.)	26A6
26A7GT	GI	Duo. Beam Amplifier	8BU-0-0	Cathode	26.5	9.0	1.2*	16.0*	13.0*	Power Amp.	26.5	4.5	+	\$0.04	£.0#	\$,500#	2,500#		1,500#	#00%	26A7GT
26BK6	Miniature	Duodiode Iri.	781-0-2	Cathode	26.5	0.07	:	:	:	Det. Amp.	100	1.0		0.5		80,000	1,250	100	:	:	26BK6
26C6	Miniature	Duodiode Tri.	787-0-0	Cathode	26.5	0.07	2.0	2.	1.4	Amplifier	26.5	2 Meg.		T-1		15,500	1,100	17			26C6
26CG6	Miniature		7BK-0-2	Cathode	26.5	-	.008m		5.0	R-F Amp.	Characteristics Sam	9.0	as Type 60	9.5		8,500	1,900	16			96656
26D6	Ministure	Heptode	7CH-0-0	Cathode	26.5	0.07	0.3	7.5			100 250 100	- +- 0 r. r.		3.0	7.80	500,000 +	455A 475A 7 900			::	26D6
275	ST-12	Triode	5A-0-0 5A-0-4	Cathode	2.5	1.75	3,3*	3.2*	2.3*	Ampliffer	135	0.00		3.0 7.4 0.7		10,000	0000	0.00			27 27S
28D7	Lock-in	Duo. Beam Ampliffer	8BS-L-0	Cathode	28.0	0.40			:	Amplifier (per section) P.P. A2 Total	00 00 00	3.5	01 04 04 00 00 00	12.5	1.0	4,200	(Rk = 390 3,400	O Par	4,000	80 000 000 000 000	28D7
28D7W (3)	Lock-in	Duo. Beam Amplifier	8BS-L-0	Cathode	28.0	0.40		:	:	Amplifier	Characteristics	ristics Same	De 2	3D7.							28D7W (3)
2825	Lock-in	Double Diode	6BJ-L-0	Cathode	28.0	0.24	:	:	:	F-W Rect.	325 A-C 450 A-C	Volts Per	Plate, RMS, 100 Plate, RMS, 100	ŽŽ	Output Current.		Condenser Input to Filter	Filter.			2825
30	ST-12	Triode	4D-0-0	Filament	2.0	90.0	*0.9	3.0*	2.1*	Det. Amp.	135	13.5					850 900 900	0.0.0			30
31	ST-12	Triode	4D-0-0	Filament	2.0	0.13	:	:	:	Power Amp.	135	30.0	:::	8.0	: :	3,600	4	(m, m)	2,000	185	31
35	ST-14	Tetrode	4K-0-3	Filament	2.0	90.0	.015m	5.3*	10.5*	R-F Amp. Detector	135	000	67.5	1.7 1.7 (Plate Cum	Current to be ad	ON	640 650 de. with no	610 780 nout Signal)		::	32
32L7GT	GI	Diode Beam Amplifier	-	Cathode	32,5	0.30	,	:	:	H-W Rect. Power Amp.	125 RMS	4S Volts Pe	9	Ma. 0	1	Condenser Input to Filter.	t to Filter.	81	2,600	1,000	32L7GT
33	ST-14	Pentode		Filament	2.0		1.0*			Power Amp.	135	13.5	135	14.5	1	50,000	1,450	90	7,000	1,400	33
34	ST-14	Pentode	4M-0-4	Filament	2.0		.015m		11.0*	R-F Amp.	67.5 135 180	0.00	67.5 67.5 67.5	0.9.9. 7.88	1.00	400,000 600,000 1 Mes.	260 600 620	224 360 620	: : :		34
35S/51 35S/51S	ST-14	Tetrode	5E-0-3 5E-4-3	Cathode	2.5		.007m	, S.	10.5*	R-F Amp.	180 250 250*		90.0 90.0 45 to 67.5	0.00 w.v.v.	01 04 10 10	300,000 400,000 2 Meg.	1,020	305	: : :		35/51 355/51S
35A5	Lock-in	Beam Amp.	6AA-L-0	Cathode	35.0	عضنت		:		Power Amp.	110	-	00	40.0	9.0	14,000 +	5,800		2,500	1,500	35A5
35B5 35C5	Miniature	Beam Amp.		Cathode	35.0	0.15	0.4*	11.0*	6.2*	Power Amp.	110	7.5	110	40.0	3.0		5,800		2,500		3585
35L6GT	GI	Beam Amp.	75-0-0	Cathode	35.0	_	-	13.0*		Power Amp.	110	2.0		40.0	0.0	14,000 0	5,800		2,500		35L6GT
35W4	Miniature	Diode	5BQ-0-0	Cathode						H-W Rect.	117 A-117 A-6	C Volts, R.	MS, 60 Ms	Output C.	urrent with P	117 A-C Volts, RMS, 60 Ma. Output Current with Panel Lamp. 117 A-C Volts, RMS, 100 Ma. Output Current without Panel Lamp.					35W4
3574	Lock-in	Diode	2AL-L-0	Cathode	35.0				:	H-W Rect.	235 Ma 235 Ma	×. A-C &	its, RMS, c	00 Ma. Out	but Current	235 Max. A-C Volts, RMS, 60 Ma. Output Current with Panel Lamp. 835 Max. A-C Volts, RMS, 100 Ma. Output Current without Panel Lamp.	Ip. Lamp.				3574
35Z3	Lock-in	Diode	4Z-L-0	Cathode 35.0	35.0	0.15				H-W Rect.	235 Max.	x. A-C Vo	lts Per Plat	r, RMS, 10	Ma. Outp	A.C Volts Per Plate, RMS, 100 Ma. Output Current. Condenser Input to Filter	andenser Inpi	ıt to Filter.			35Z3

AVERAGE CHARACTERISTICS I ES 00 **□** SYLVANIA

	Type	3574GT	35Z5GT	35Z6G	36	37	38	39/44	40	40A1	4082	40Z5/45Z5GT 41	42	43	4523	45Z5GT	maximum Cathode Resistor	
Undis- torted Power	Output Milli-	4800				::	1,000	3 : : :						1,600	-		E=	
Ohms	Stated	indian			:::	: :	13,500							3,900	4,600		Pentode Operation. Plate to Plate. Approximate.	Z
Ampli-	fication Factor	+			475 525 595	0.00		360	900	olts.	at 60 Volts.			W. W.	3.5		Pentode Plate to F	11 ~
Transcon-	9	ilter.			1,000	À	1,050	- 444	800	Avg. Operating Curent—0 Ma. at 20 Volts, 150 Ma. at 40 Volts, 155 Ma. at 60 Volts.	155 Ma. at 60			2,125	2,050			
Plate	Resistance Ohms	Condenser Input to Filter		Per Plate.	575,000 500,000 550,000	10,000	30,000	375,000 750,000 1 Meg.	150,000	40 Volts, 15	at 40 Volts;			1,650	1,700		Applied through 20,000 ohms. Conversion Transconductance. Triode Operation.	
	Ma.			Output Current. Output Current Per Plate	Not Over Office of the Not Over Over Over Over Over Over Over Over	The same of the sa	r. oi €.			s, 150 Ma. at	olts; 150 Ma.			:::	stput Current.		A Conversion Triode O	
Plate	Ma.	117 A.C Volts, RMS, 100 Ma. Output Current.	3574.	4S, 110 Ma. C	8 + 0 E	4.4 7.5 7.5	0.000	10 10 10 C	0.00	Aa. at 20 Volt	Avg. Operating Current—140 Ma. at 20 Volts, 150 Ma. at 40 Volts, 155 Ma. Abancheristics Same as Type 35 VA	SK6GT.	SF6G.	31.0	A-C Volts Per Plate, RMS, 65 Ma. Output Current		Voltage.	
	Volts	, RMS, 100 N	Characteristics Same as Type 35Y4.	2 -	67.5 90.0 90.0 90.0	-	135	0.000 7.000 7.000 7.000 7.000		Current-0 A	Avg. Operating Current—140 Ma	Characteristics Same as Type 6K6GT.	Characteristics Same as Type 6F6G.	180 31.5 31.0 31.0 250 50.0 34.0	Per Plate, RM	0 0 0 1	Applied through 250,000 ohms. Per Tube or Section. Plate and Target Supply Voltage.	
	Volts Volts	7 A.C Volts	racteristics S	A-C Volts A-C Volts	3.00 3.00 6.00 6.00					g. Operating	g. Operating	racteristics S	racteristics S	31.5			# Per Tube	
				_	mp. 135 180 250 ctor 250					\vdash		+	-	-	-		Grid. grid.	
	5	H-W Rect.	H-W Rect.		R-F Amp.		Power Amp	R- R-	Amplifier	Horiz, Reg.	H-W Rect	Power Amp.	Power Amp.	Power Amp.	H-W Rect.		w. Grid to ied to each	
inces if.	Cin. Cout				3.7* 9.2*	3.5* 2.9*	3.5* 7.5*	3.5* 10.0*	2.8					4.0* 3.0*		/ no 1:16 als	of 320 M RMS appl	
Capacitances in µµf.	Cgp.				.007m	2.0*	0.3	.007m	8.0					7.0*		1	1.2) ries special mechanical and/or life characteristics. §§ With Average Power Input of 320 Mw. Grid to Grid. T For two tubes with 40 volts RMS applied to each grid.	
	Amps.	0.15	0.15		0.30		0.30	0.30	0.25 8		0.15	0.40	0.65	-	0.075	100	Average F	The state of the s
Emitter	Volts	35.0	35.0	22.0	6.3	6.3	6.3	6.3	5.0		45.0	6.3	6.3	10.01	45.0	(3) Haz	± Seith	
	Type	Cathode	Cathode	Lathode	Cathode	Cathode	Cathode	Cathode	Filament		Cathode	Cathode	Cathode	Filament	Cathode	199	plate,	TO THE PERSON OF
	Basing Diag.	5AA-0-0	6AD-0-0	0-0-5/	5E-0-3	5A-0-0	5F-0-0	5F-0-4	4D-0-0	8ES	8ES 6AD-0-0	68-0-0	68-0-0	4D-0-0	5AM-0-0	d with (*)	signal grid to	
Construction	Class	Diode	Diode	Cuodiode	Tetrode	Triode	Pentode	Pentode	Triode	Ballast	Ballast	Pentode	Pentode	Triode	Diode	Now Known as Type 4025/4525GI	ices given are	4 6 1 × ×
	Bulb Size or Style	GI	T S	41-10	ST-12	ST-12	ST-12	ST-12	ST-14	6-1	<u></u> 15	ST-12	ST-14	ST-14	Miniature	won chielde	se capacitar xer Output.	
T	9		35Z5GT	33700	. 98	37	80 FR	39/44	40	40A1	40Z5/45Z5GT	41	42	45	45Z3	(1) Values are di	(1) converter tube capacitances given are signal grid to plate, (2) Converter tube capacitances given are signal grid to plate, (2) RF Input, Mixer Output.	å å å

S	The State of
C	
	l
 - -	l
S	l
	1
œ	-
Ш	
 -	
C	I
4	
œ	
ARACTERISTICS	
I C	-
<u>د</u>	
Ш	Total Control of the last
AG	l
2	i
Ш	l
V K	I
A	
7	l
I	
S	ı
Ш	
TUBES	
2	
H	
4	
-	
Z	
V A N I A	
>	
_	
>	
S	

	52		++	47		49	20	1		\vdash	5065 5005	-	50L6GT	50X6	50Y6GT	15/ /00	50Z6G	50Z7G	EF50	52	VT52	53	555	56 56S	56AS	57 57S	57AS	58 58S		6 ±±	_	70L7GT	71A	75 75S	76	77	78	
1	Undis- torted Power	Milli- watts	-01	2,700	- 1		+ 9 E 4 0004, 8		2,100		000,	2004,1							160 Ohms)		1,000					::			- 1	15,000 20,000 20,000		1,800	125		:	: :		
)	Ohms Load for Stated	Power	5,200	7,000	1,500	12,000	4,600 4,100 3,670 4,350		9,000 3,000	001	0 500	2,200						Section.	(Rk = 1	2,000	3,800					: :				2,4,4,0 000,0 000,0 000,0	2,500	2,000	3,000	:	:	: :		
1	Ampli-	Factor	5.6	150	43.0	eration	ന് ന് ന് യ യ യ യ	Volts.	: :		:							u Panel Lam		5.2	3.8			13.8 nput Signal.)		Input Signal.)		: :		6.0 100 Tubes) Tubes)			000	100	13.8 Input Signal.)			
	Transcon-	Micromhos	2,350 peration)	2,500	3,900	(Two Tubes Class B Ope	2,000 2,000 1,000 1,000 1,000	56 Ma. at 65	8,200		7,500	2000'1						With Current passing thru Panel Lamp Section.	6,300	3,000	2,300			9,500 1,450 13.8 adjusted to 0.2 Ma. with no Input Signal.)		1,185 1,225 Ma. with no		1,500		2,300 2,600 40,000 Class B Operation Two T (Class B Operation Two T (Class B Operation Two T	5,800	E .	1,650	1,100	1,450 Ma. with no	1,100		
	Plate		(Class B Operation)	00009	11,000	4,175 (Two Tub	2,000 1,900 1,800	at 50 Volts,	10,000 ♦		14,000 0	000,01		ë.		anel Lamp.		it. With Curre	9	1,750	1,650			9,500 lusted to 0.2		1 Meg. 1 Meg.+ usted to 0.1		250,000		2,300 40,000 (Class B (nt.	15,000	1,820	91,000	9,500 usted to 0.2	600,000 +	300,000 + 1 Meg. + 800,000 +	
	Screen		: : :	0.0	12.0	: ;		Š	1.5		0.4	2.		Output Per Plate. Output.		11/ A-C Volts, RMS, 63 Ma. Output with Parel Lamp. 110 A-C Volts, RMS, 65 Ma. Output Per Plate with Panel Lamp. 235 A-C Volts, RMS, 65 Ma. Output Per Plate with Panel Lamp.	Jutput.	117 A-C Volts Per Plate, RMS, 65 Ma. Output Current. 235 A-C Volts, RMS, 65 Ma. Output Current Per Plate.	3.1	2 .	5 5					0.5 Current to be adj		90		*, * * * * * * * * * * * * * * * * * *	Output Current	urrent. Conde	::		Current to be adj	0.5	E.0.	
)	Plate	χe.	22.0 4.0# 6.0#	31.0	52.0	6.0 2.0#	35.0 55.0 55.0	30	49.0	1×6G.	49	49. 6G.	L6GT.	Ma. D-C O	Z6GT.	Output Pe	Ma. D-C	Output Ci	10.0	43	1.5#	46.	/76.	5.0 (Plate Current to be	5.	2:0 2:0 (Plate Cur		0.8		20.00 20.00 20.00	S, 60 Ma.		0.0	6.0	5.0 (Plate Cur	1.7	4.0	
1		Volts	200	250	82.0	Tie Gs to P Tie Gs to G		urrent-52 h	110	0e 6/	110	Characteristics Same as Type 6Y6G.	Characteristics Same as Type 25L6GT	235 Volts RMS Per Plate, 75 Ma. D-C 117 Volts RMS Per Plate, 75 Ma. D-C	Characteristics Same as Type 25Z6GT.	MS, 65 Ma. MS, 65 Ma. MS, 65 Ma.	er Plate, 250	r Plate, RMS MS, 65 Ma.	250	:		Characteristics Same as Type 6A6.	e as Type 6V7G	: :	e as Type 56	555	6 35	100	e as Type 58	250** 28.0 Tie Gs to P 20 250; 18.0 250 31 300** 0.0 Tie Gs to G 20 400** 0.0 Tie Gs to G 20	Volts Per Plate, RMS, 60 Ma.	Volts, RMS, 70 Ma.				100	75.0	
5 C	Negative	Volts		16.5		20.0	54.0 70.00 84.0	Operating C	7.5	ristics Sam	7.5	ristics Sam	ristics Sam	olts RMS Polts RMS P	eristics Sam	C Volts, R C Volts, R O Volts, R	Its RMS P	C Volts Pe	Self	0	43.5	eristics Sam	Characteristics Same	13.5	eristics Sam	0.6.4 0.0.4	Characteristics Sam	3.0	eristics Sam	0000	A-C Volts P	Ų	16.5 27.0	2.0	13.5	3.0	0.0.0	
	النظائدة	Volts	250 300 400	250	125	135	300 350 400 450	Avg. C	110	Charact	110	Characte	Characte	235 Vo	Charact	150 A- 235 A-	235 Vo	117 A- 235 A	250	110	180	Charact	Charact	250 250	Charact	100 250 250*	Charact	100	Charact	250** 250† 300**	125 A 110	117 4	135	250	250	100	180	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	-	*50	Power Amp.	Power Amp.	Power Amp.	Power Amp.	Power Amp.	Fil. Ballast	Power Amp.	F.W Rect.	Power Amp.	Power Amp.	Power Amp.	H-W Rect. Doubler	F-W Rect.	Doubler H-W Rect.	F-W Rect.	Doubler H-W Rect.	R-F Amp.	Class A Amplifier	Amplifier	Power Amp.	Det. Amp.	Amplifier Detector	Amplifier	R-F Amp. Detector	R-F Amp.			2	H-W Rect. Power Amp.	H-W Rect.	Power Amp.	Det. Amp.	Amplifier	R-F Amp.	R-F Amp.	
t		Cout		1.3*	:	:	3.4*		:		k +	0.1		:		:	:	:	5.0	:	3.0		4.3*	2.5*		6.5*	:	*0.9		:	:	:	2.9*	, co.	2.5*	11.0*	11.0*	
	Note (¹) (²) Capacitances in µµf.	Ğ.	:	*9.8	:	:	*2.4		:		13.0*	13.0		:		:		:	8.0	:	5.0	1	ro *	3.5*	:	5.0*	;	4.7*		:	:	:	3.6*	1.7*	3.5*	4.7*	4.5*	
	Z S S	Cgp.	i	1.2*	:	:	7.1*		:		0.5*	0.04		:		:		:	0.007m	:-	7.7	-	1.5*	7.0°*		.007m	:	.007m		:	:	:	7.5*	1.7*	,00 *	.007m	.007m	
0		Amps.	1.75	1.75	0.40	0.12	1.25		0.15	0.3	0.15	0.15	0.15	0.15	0.15	0.15	0.30	0.15	0.3	0.30	00	2.0	0, 1	1.0	0.40	1.00	0.40	1.00	0.40	2.0	0.15	0.15	0.25	0.30	0.30	0.30	0.30	
)	Emitter	Volts /	2.5	2.5	30.0	2.0	7.5	:	50.0	50.0	-	20.0	-	20.0	50.0	46.0	50.0	50.0	6.3	6.3	7.0	2.5	N. N.	2.5	6.3	2.5	6,3	2.5	6.3	2.5	70.0	70.0	5.0	6.3	6.3	6.3	6.3	
	ū	Type	Filament			Filament	Filament		Cathode			Cathode				Cathode	Cathode		Cathode	Filament	Filament	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Cathode	Filament	Cathode	Cathode	Cathode	Cathode	
1		Basing Diag.			0-0-V9	2C-0-0	4D-0-0	9CM	6AA-L-0 (+	7CV-0-0	+		-	0-0-N&8	70-0-0	o	9C-L-5 & 8	2C-0-0	40.0.0		6G-0-5 6G-5-5			6F-0-5 6F-5-5	6F-5-5				8AB-0-0	8AA-0-0	4D-0-0	66-0-5		6F-0-3	6F-0-5	
1	Construction	Class	Dual Grid Triode	-	Tetrode	Dual Grid		Ballast	ď		-		Beam Amp.		Duodiode		+-	Duodiode	Pentode	Dual Grid Triode	Triode		=	Triode	Triode		Pentode	1-	Pentode			Diode Beam		Duodiode Tri.	Triode	Pentode	Pentode	
7		Bulb Size or Style	ļ	ST-16	ST-16	ST-14	ST-16	T-61/2	-	ST-14	_	Miniature B	+	Ë	GT		+	ST-12	Metal		5.47	+	-	ST-12	ST-12	ST-12	ST-19	ST-12	ST-12	SI-16	GT D	GT D	ST-14	ST-12 Du	ST-12	ST-12	ST-12	
7		Type				49	50	50A1		50AX6G			50L6GT		50Y6GT)Y7GT	766	50Z7G	EF50	52	VIEG	36	555	56	AS	57 57S	STAS	588	AS	29	70A7GT	70L7GT	71A	75	76	77	78	

-Page 26-

CHARACTERISTICS TUBES - AVERAGE SYLVANIA

1-150 Volla Vola Volla Volla Volla Volla Volla Volla Volla Volla							in μμέ.	ur.		T D					_		-	Gention	Chapad	Power	7
History 13 133 134 135							`				/olts Vo	lts Voll	Σ	Ma	0			Factor	Power	Milli- watts	adkı
History 13 300 10 4	SI			Filament		1.25		:	¥-I	Rect.	00 A-C Vo	Its Per Plate	, RMS, 85 h	Aa. Output	urrent. Co	andenser in	out to Filter.				81
Cubical 2.0	S	+		Filament		3.0			F.W.	Kect.	50 A-C VG	Ite Per Plate	RMS, 115	Ma. Output	Current.	ondenser	nput to Filter			-	82
Control 2.3 0.50 0.5 1.5	S	+		Cathode	1	2.00			F-W	Rect.	75 A-C Vo	Its Per Plate	. RMS. 175	Ma. Output		ondenser	nout to Filter				83/
Cuthied 5.3 0.20 1.5° 1.1° 1.4° 1.4° Det Amp. Chanderintel Same if the 6VIG Cuthied 5.3 0.20 Cuthied 5.3 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	ST	-		Cathode	1	0.50	:		F-W	Rect.	25 A-C Vo	Its Per Plate	, RMS, 60 N	Aa. Output C	urrent. Co	ndenser In	out to Filter.				84/624
Calculate 6.3 0.30 Calcul	S			Cathode		-			Det.	Amp.	haracteristic	s Same as Ty	rpe 6V7G.								85
Coling 13 10 10 13 13 13 13 13	SI		-	Cathode		0.30			Det.		250 9	0	4.5		. 16	000	1,250	20			85AS
Filewert 13 0.055 33° 125 127 Did Amp 100 13 100 100 13 100 13 100 13 100 13 100 13 100 13 100 13 100 13 100 13 100 13 100 13 100	7			Cathode				:	Lowe				20.0 20.0		200	000	,550	195	0000	1,500	Ď,
Filterent 33 0.000 3.5 2.5 0.5 Dai, Amp 0.00 4.3 0.000 3.5 0.000 4.3 0.000 4.3 0.000 4.3 0.000 4.3 0.000 4.3 0.000 4.3 0.000 4.3 0.000 0	05.450			Play					Z		R3 OC3 25	d OD3	3.0#		Opern. 11	e Su to P &	5	Ao Inpes)	7,400	3,5001	VP 00 10K 4 KO
California 13 0.000 13'5 12			t	-	+	4	+	+	+		90,000	5 003,	9.5		15	500	495	199			V99
Calcided 117 0.00			1		+-	-	-	+-	-	-	+-	2	2.5		121		425	9.9	-		66×
Cathoda 117 0.00 Cathoda 117			-	Cathode	1	60.0	:	-		- free	7 -	Its, RMS, 7	5 Ma. Outpu	urrent.	ondenser Ir	nput to Filt	. SF.		000	CH	117L7/M7GI
Cathode 117 0.00 Cathode 117			-	-	+	60.0			¥-I	_	17 A-C Vo	Its, RMS, 7	5 Ma. Outpu	urrent.	ondense	nput to Filt	er.		200	2	117N7GT
Cabbook 117 0.04			_	Cathode	-				Powe H-W	_	100 1 6	its Per Plate	RMS 75 N	An Output		0000's	7,000		3,000	1,200	117P7GT
Calcade 17 0.04		_							Powe		105 5	.2 10:	5 43	4		-	5,300		4,000	850	>
Chiefwell 11 0.003 1.55 1.50 1.5			+	Cathode	-	0.04			I I	_	17 Volts P	er Plate, RM	IS, 90 Ma. D	As Output	400000						117Z3
Filament 10 135 135 130 1300 1				Cathode	+	0.075			Volt	- 	17 A-C Vo	its Per Plate	, RMS, 60 N	Aa. Output C	urrent.		1				117Z6GT
Filenene 73 153 153 150	28	\vdash		-	-	1.25	:	:	Powe	-		0	20.0			-	2,000	5.0	4,500	1,350	182B/482B
Filament 11 123 125 170 40° 130° Power Amps. (Standard Type 10 with Centric Bas., Ser Type 10 Checateridical.) 1400 1935 143700 1400 1935 143700 1400 1935				Filament	Н			Н			250 65	0.	20.0		2		1,500	3.0	4,500	1,800	183/483
1	S		-	Filament	-		+	\dashv	-		Standard Ty	oe 10 with (eramic Base,	See Type 1	O Character						210-T
plate; (3) His parcial in redundant of onlice burst of the control	S	-	i	Cathode	+	+		+	Det.	Amp.	-	0 1	8.0		00 (+	1,400	12.5	-	:	485
plate, \$\text{\text{3}}\$ Hy was designed when the plate of \$\text{5}\$ and \$\text{d}\$ of \$\text{lines of Door ohms.}\$ \[\text{\text{A}} \text{\text{C}} \text{\text{d}} \text				Filament					Det.	Amb.		0.0	m kg		204	2007	645	00 00 N 04	: :	: :	804
	es are given erter tube ce	shielded unless i	marked with (*).	plate,	SE ±	special me	chanical and Power Inpu	d or life t of 320	characteristi Mw. Grid to	cs. o Grid.		ed through be or Section	250,000 ohm	∢:	onversion I	ransconduc	0 ohms. tance.	Pentode Plate to	Operation.	Em	maximum Cathode Resistor
	ibut, Mixer	Output.			T For	two tubes w	vith 40 voil	IS KMN a	pplied to ea	ich grid.	. Plate	and larger 5	upply voltag		riode Ope	ration.	-		mate		
			a e				So a					d			- nr						
				3				7					A A	Tal	TO STATE OF THE PARTY OF THE PA	1	TY THE				
	;					$\left(\begin{array}{c} \end{array}\right)$								102/-	2 80	3		37			
	AD.	4-B		D-4		4-CB		•	9-		4-E		∀ -c	ń	∀ ₩		9-c		ي-ر د		2-s
	F	The state of the s	E S		(fus							ZI.	, N	1	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	E	A.	,	(5).
		(a)		3	3	1/				3		T C	0 0		<u>г</u>			(a)		13/P	ر]] رح ا
			IN I				N N N N N N N N N N N N N N N N N N N	0			101	Ini	N N		3	77					
6-AA 6-F 6-G 6-H 7-D		H	7			I		3) 3//	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		37			V	No. I. K.
		*				4		H.	1	7		1) ") ;	7		,	
	∀- 9	6-A	∢	6-F		%		0	Ţ		4		7-B	7-1	3Z		7-CV		Y-DX		, J
			(, and	(<i>t</i>		/4	-	£	-	6	-	Carlo		5		(
			3	Sec.		33					(C)	3	9	3	33	2]	(1)				
									וו												
			(m OZ)	(77		N.		200	(5)Z)						3)			3			
			182		0				7		7 °		/ ~		/) n	1) o C V			

SYLVANIA TUBES - AVERAGE CHARACTERISTICS

Ype							do)	in μμf.			2	Negative	C	Plate	Screen	Plate			for	Power	,
	Bulb Size or Style	Class	Basing Diag.	Type	Volts	Amps.	. Ggb.	Cin.	Court	o Co	Volts	S S S S S S S S S S S S S S S S S S S	Volts	Ma.	Ma.	Ohms	Micromhos	Factor	Power Output	Milli- watts	Ype
	ST-12 (Gas Triode	0-0-09	Cathode	6.3	9.0	\$0.0	2.0*	0.6*	Relay Tube	300	30	:	75	For Relay	Relay Operation Lir Volt Tube Drop.	Limit Time to 30	Secs. 300		urrent.	400
		Gas Triode	5A-0-0	Cathode	2.5	1.5	*0.0	2.0*	*9.0	Relay Tube	Characte	Characteristics Same	as Type	884.	0	405 000	000	400	004 67		885
	Acorn	Pentode	58B-0-0	Cathode		0.15	0.007m	3.4	3.0	R-F Amp.	06.0	0.00	000	0.00	0.5	1 Meg.	000,	CX.	13,500	2/2	954
	Acorn	Triode	5BC-0-0	Cathode	6.3	0.15	1.4	1.0	9.0	Osc. Amp.	250	0.0	3	0.00	3	11,400	ł	900		-	955
	Acorn	Pentode	5BB-0-0	Cathode	6.3	0.15	0.007m	3.4	3.0	R-F Amp.	250	3.0	100	6.7	2.7	4 000'001	-	CZ			956
	Acorn	Triode	5BD-0-0	Filament	1.9	_	1.2	0.3	0.7	Osc. Amp.	135	5.0		2.0		\$008'08		13.5			957
958-A	Acorn	Triode	58D-0-0 58E-0-0	Filament		0.10	2.6 0.015m		0.8	Osc. Amp.	1 35	3.0	67.5	3.0	70	10,000	1,200	12			958-A
FM1000	Lock-in	Heptode	FM1000	Cathode	6.3			L	:	F-M Det.	:	2	2			200'000	3				FM1000
1005	Metal	Gas Duodi.	5AQ-0-1	Filament	_	-				F-W Rect.	450 Max.	Peak	Inverse V., 2	210 Ma. Max.	Peak	Current, 70 Ma. A	Avg. Current [D-C. Avg. Tube	Drop =	20.	1005/CK1005
	Now Know	Now Known as Type 7E5	20																		1201
203-A	Now Know	Now Known as Type 7C4	R7																		1203-A
	Now Known	Now Known as Type 7G8	00				276						,								1206
	ST-12	Pentode	6F-0-5	Cathode	6.3	0.30				Amplifier	Special	Non-Micro	phonic Tu	be, Characte	Special Non-Microphonic Tube, Characteristics Same as Type 6C6.	is Type 6C6.					1221
	ST-12	Pentode	7R-0-0	Cathode	6,3	0.30		:	:	Ampliffer	"G" Ec	uivalent of	Type 122	1 Above.							1223
	ST-12	Tetrode	4K-0.0	Filament		90.0		: 6	1 1		Special	Type 32.	Made for	ow Grid Co	Special Type 32. Made for Low Grid Current Application.	stion.					1229
	1.9	Triode	4D-0-0	Filament	2.0	0.00	6.0"	3.0"	10.1×	D F Ame	Special	Type 30.	Made for	Low Grid C	Made for Low Grid Current Applications	cations.	200	0300		100	1230
	Lock-in	Pentode	6-7-A8	athode	0.3	0.40	ECTO.		0.0	Tet. Amp.	300	Self	150	18.0	0.50	540,000	6,500	3,500	(Rk = 22	200 Ohms)	1231
	Now Known	Tow Known as Type 7G	1947	Filament	0.7	0 065				R.F Prohe	300 0	C Volte RA	AS DA MA	300 A.C Volle BMS 0.4 Ms. D.C Plate Current	Current						1232
	ST-12	Diode	4AJ-0-0	Cold	1	:			: :	Voltage Reg.	Starting	Starting Voltage =	135, Op	Operating Voltage	Bge = 90, C	= 90, Operating Current	ent = 5 to 30 Ma.	0 Ma.			1265
	GĪ	Diode	4AJ-0-0						:	Regulator	Voltage	Requistor	Similar to	Voltage Regulator Similar to Type OB3 / VR-90-30	VR-90-30. E	Except Regulating at 70 Volts	ing at 70 Ve	. Ite			1966
	1		No Jumper							1											
	GF Lock-in	Gas Triode	8V-L-5	Cathode	. 6.3	0.30	.004m	0.9		Relay Tube	Charact	Similar to Type OA4G	A4G.	ACT (Speci	Non-Micr	Similar to Type OA4G. Characteristics Same as Type 14C7 (Special Non-Microphonic Tube)					1967
	GI	Duodiode	0-0-59	Cathode		09.0			:	F-W Rect.	Charact	Characteristics Same as Type 774.	e as Type	774.							1274
	ST-16	Duodiode	4C-0-0			1.75	:	:	:	F-W Rect.	Similar	Similar to Type 5Z3.	3.								1275
	ort-10	Pentode	2.0.04	Cathode	10.4	4 1 0	004m		. 7.	Amplifier	Charact	Characteristics Same	A.S.	ACT (Queri	Non-Miss	anhonic Tube					1276
	Lock-in	Pentode	8V-L-5	Cathode	12.6	0.15	0.01	5.0	0.9	R-F Amp.	250	3	100	9.0	2.5	250 3 100 9.0 2.5 800,000	200	:			1284
	Now Known	Now Known as Type 3B7			1 L																1291
	Lock-in	Triode	4AA-L-0	Filement	4.	Ŧ.	1.7	1.7	3.0	Oscillator	88	000	: :	13.10	120 Mc.	Mc. Oscillator Rg	1,500 Ohms	15 hms.	:	:	1293
	Now Know	Now Known as Type 1R4	4																		1294
	NOW ANOW	Now Known as Type 3Do	7T-1-0	Cathodo	6.4	0 30	001m		110	Miver Amo	Charact	Characteristics Same	ar Type	7 17							4440
	ST-12	Triode	0-0-09	Cathode	12.6	.95	4.4*	3.2*	3.4	Oscillator	250	70	200	202	Class C. Oscillator	ō	Amplifier.			4.000	1626
		Electron Ray	7AL-0-0	Cathode	12.6	0.15		:	:	Indicator	Charact	eristics Sam	e as Type	6E5.							1629
	ST-12 G	Gas Tetrode	6BS-0-0	Cathode	6.3	0.60	0.26*	4.2*	3.6*	Relay Tube	400 5.0	5.0	00	100	For Relay	For Relay Operation Limit Time to 30 Sec	mit Time to	30 Secs.	The same of the sa		2050
	ST-12 C	Gas Tetrode	6BS-0-0	Cathode	6.3	9.0	0.26*	4.2*	3.6*	Relay Tube	220	4.0	0	75	For Relay	For Relay Operation Limit Time to 30 Sect	mit Time to	30 Secs.			2051
5517/CK1013 P	Miniature	Gas Diode	5-8U	Cold	1	:		:	:	H-W Rect.	2800 A	2800 Max. Peak it	Inverse V.,	50 Ma. Max.	x. Peak Curre	Peak Current, 6 Ma. Avg. Current D.C., Avg. Tube Drop	g. Current D	C, Avg. Tut	De Drop = 100.	.0.	5517/CK1013
	Miniature	Pentode	7BD-0-0	Cathode	6.3	0.15	0.01	3.40	2.90	R-F Amp.	06	Self	06	3.9	1.4	300,000	2,000	9009	(Rk = 8	820 Ohms)	5590
	Miniature	Pentode	7BD-0-0	Cathode		0.15	0.01	3.90	2.85	R-F Amp.	120	Self Self Self	120	7.5	00 00 00 다하스	340,000 420,000 690,000	5,000	3,500	* # "	200 Ohms) 330 Ohms) 200 Ohms)	5591
5608-A	ST-14	Duotriode	78-0-0	Cathode	2.5	2.0		:	1	Amplifier#	200	in v	:::::::::::::::::::::::::::::::::::::::	0.0		14,000	2,200	31.5			5608-A
3)	T-3	Pentode	5633	Cathode		0.15	0.01m	4.0	8.8	R-F Amp.	100	Self	100	7.0	2.8	200,000	3,400	3	(Rk =	150 Ohms)	5633 (3)
(3)	T-3	Pentode	5633	Cathode	1	0.15	0.01m	4.4	00	R-F Amp.	100	Self	100	6,5	2.5	\$40,000 \$			(Rk = 1	= 150 Ohms)	5634 (3)
5635 (3)	T-3	Duotriode	8DB-0-0	Cathode	6.3	0.45	1.2	2.6	1.6	Amplifier	100	Self		4.8		10,000	3,800	38	#	100 Ohms)	5635 (3)
3)	T-3	Pentode	8DC-0-0	Cathode	6.3	0.15	.015m	4.0	3.4	Mixer	100	150 =	100	3.5	5.7	320,000	1,280▲	1			5636 (3)
(3)	L-3	Pentode	8DK-0-0	Cathode	6.3	0.15	0.19	4.0	3.2	Ampliffer	100	Self	100	4.4	. 0	150 000	2,700	70	(Rk = 8	(Rk = 820 Ohms)	5637 (3)
(3)	T-3	Pentode	8DL-0-0	Cathode	6,3	0.45	0.10m	9.5	7.5	Power Amp.	150	Self	100	21	4	50,000	9,300	(Rk =	100 Ohms)	1.000	5639 (3)
(3)	T-3	Pentode	8DL-0-0	Cathode	6.3	0.45	0.09	0.6	6.5	Power Amp.	-	Self	100	0	2.2		5,000	Rk = 270 O	Ohms. 3,000	1,250	5640 (3)
101	-	Company of the last of the las	The second second				A STATE OF THE PERSON NAMED IN	The Person Name of Street, or other Person Name of Street, or				-									

-Page 28-

S CHARACTERISTIC AVERAGE S ш M SYLVANIA TU

10 10 10 10 10 10 10 10			Construction		En	Emitter		Note (1) (2) Capacitances in µµf.) (3) inces						Plate		Plate				Undis- torted Power		
10 10 10 10 10 10 10 10	Ape	Buib Size or Style	Class	Basing Diag.			-		-	1		Volts			Current Ma.	Current Ma.	Resistance						уре
10		T-3		5642	+					₩-		Pulse Type	Rectifier f.	or Television	on Service,	النسال	s Peak Inver	rse.			41	5642	
10 10 10 10 10 10 10 10	5643 (3)	T-3	_	8DD-0-0	Cathode	-	+		+	+	ay Tube	150 5	A-C		50	(Grid Bias	Voltage 180	Do, Out of P	hase with A	node Voitage	•	5643 (3	(3)
12 12 12 12 12 12 12 12	5044 (3)	- O	-	4CN-0-0	Cold R		+		+	+	molifier	100 c	Solf Solf	-	, Operatin	S Voltage yo	, Operating	Current 5	to 25 ma.	/Dr	KAO Ohm	2044 5648	(3)
10	5646 (3)	101		5646	Cathode	+	+		-	+	molifier	_	Solf		7. P		000'00	_		(DL	200 Okm		3)
10 10 10 10 10 10 10 10	5647 (3)	1	+	5647	Cathode	+	+		+	-	-	117 Volts	RMS Plate	O Ma. D	-C Output.		200/17		-			5647	(3)
10 10 10 10 10 10 10 10	5654 (3)	Miniature	+	78D-0-287	Cathode	+	_		+	-	-	120	Self	120	7.5		340,000	5.000				5654	3)
1	5670 (3)	T-61/2	-		Cathode	+		-	l.	I	Amp. #	2	40 =	1	8.2		6,370 \$		-				3)
10 10 10 10 10 10 10 10	5679	Lock-in		10	Cathode	H	\vdash	:	Τ.			Characteristi	ics Same a	7	For	VM Use.			+			5679	
1	5686 (3)	1.61/2	+	0-0-96	Cathode	H	-	_	-	H	-	250 1	2.5			5.0		3,100	:	000'6	-	-	3)
Column C	5687	I-612	╀	0-0-H6		Н	┝	L	-		\vdash	-		-	12		4,000	5,200			-	ļ.,	1
10 0 0 10 10 10 10 10						-	+	+	⊦	4	+	-	7.0		22		2,750	8,100					1
Continue	5691 (3)	5	Duotriode	0-0-0-088	Cathode								м	:	K.3	:	44,000	030,1		:	:	5091 (3	3)
10 Nation Nation 10	5692 (3)	GT	₩	8BD-0-0	Cathode			-	\vdash	-	-	_	6	::	6,5	:	9,100	2,200		:	:	5692 (3	3)
10 10 10 10 10 10 10 10	2400 (0)	177.74		0 140	C-W-d-	+	+	- 1	-	-	-	OED	+	00	0	200		4 480				270071	16
The control of the co	5694 (3)	ST-14	Duotriode	8CS-0-0	Cathode				-		-			3	200	0.0	11,300	3,100				5694 (3	3)
The boundary of the control of the c	(1) Values are g (2) Converter tub	ven shielde	d unless marked	with (*). gnal grid to p		(3) Has sr	Average F	hanical and	Vor life ch	haracterist	-		lied through	tion.	ohms.	1	d through 20	0,000 ohms	***	ntode Operat	*	m maximum Cathode F	Resistor
	RF Input, M	xer Output.				₩ For tw	o tubes w	ith 40 volt	RMS app	olied to e	ach grid.		and Targe	t Supply	/oltage.	** Triode	Operation.		•	oproximate.			
				//	/		100						+	To the second		THE STATE OF THE S		ST.	1	LONG BND		(((
	4)		OX OX		70	New York				(F)	C C C C C C C C C C C C C C C C C C C	73	\(\frac{\pi}{\pi}\)		50	9	(3)	(a)		3	13		70
	500	£ £	0(1							2		2	0 (To To		To the second	11	SHORT				
THE PROPERTY OF STATE	くくさ		S S S	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		2)\\		\.\.\.	1	\(\frac{1}{2}\)	3	Tr.		I A	3	过下	_/	~	15		[{/ 	7
44 44 44 44 44 44 44 44 44 44 44 44 44					3	<i></i>				R		À()	<i>[</i>]	0			Z	S N	1	7		47	\$\epsilon \(\frac{1}{2} \epsilon \) \epsilon \(\frac{1}{2} \epsilon \(\frac{1}{2} \epsilon \epsilon \) \epsilon \(\frac{1}{2} \epsilon \epsilon \(\frac{1}{2} \epsilon \epsilon \) \epsilon \(\frac{1}{2} \epsilon \epsilon \epsilon \epsilon \\ \frac{1}{2} \epsilon \epsilon \\ \frac{1}{2} \epsilon \epsilon \\ \frac{1}{2} \epsilon \\ \frac{1}{2} \epsilon \epsilon \\ \frac{1}{2} \epsilon \epsilon \\ \frac{1}{2} \epsilon \epsilon \\ \frac{1}{2} \epsilon \\ \frac{1} \epsilon \\ \frac{1}{2} \epsilon \\ \frac{1}{2} \epsilon \\
	4-AA		4-A		4-0		A		14	0		¥4		7-4		5-A		S-AO		V EWED FROM SHOR	AT ENO	Vitwed FROM SHOOT	ONT TWO
			TONG PRO																	2-88		79-5	,
3.50				T.	- 3		(g	//	K	56	Infa	A.	K		(9)X	500		100	L		4		(7
3-80 3-80 3-80 3-80 3-80 3-80 3-80 3-80	E L		1	SIS C	\$ 1 m		(1			(E) (E)				3			100				TE TE	VI	9
3.80		SHORT END				(d)							7 2 6		(K)] [<				-			
2-80			TO THE PARTY OF TH	えるへ		1	X.		< 100		4	(3)	1	X.	101		EX			(5)	< -		- X=
3-8E 5-8U 5-K 6-6S 6-C	1	7		<i>_</i>		7	-7C-	7	The state of the s	A	<i>}</i> /		7		7	- TO			1		K		
7-PD	10		VIEWED FROM SHORT END	, IQ	-80		2.K		6-B	35		D-9		6-F		0.9		8-9		1-AL		7-B	
7-ED 7-CX 7-R 7-1	1		TOTAL STATE OF THE PARTY OF THE	-	F		(<		10	1	151		4		The	4				A	ST ST	4
7-BD 7-BD 8-CB 8-CB 8-CB 8-CB 8-CB 8-CB 8-CB 8-CB	-/-	1		3			1	<u>}</u>	0	1/2		ð		(0)		2	1	3	4	(3)	\(\frac{1}{2}\)		1
7-ED 7-CX 7-R 8-BD 8-CS 8-DB 8-CS 8-DB 8-DD 8-DB 8-DD 8-DB 8-DD 8-DB 8-DB		2		107		100	O	()	~	1	300	(3) P	1 (3)	T d	(B)(B)				CE CE				# .
7-BD 8-DD 8-DD 8-DD 8-DD 8-DD 8-DD 8-DD 8) (2		1		7		7	1	To The Time of the	1	TO I	3	100		I
7-BD 7-BD 7-BD 7-BD 7-BD 7-BD 7-BD 8-DD 8-DD 8-DD 8-DD 8-DD 8-DD 8-DD 8	<.		R R		ライ	=)	K	5	X	1		(-	~	<	R		T A)<br /-	I I	()	I A	()	I
7-BD 8-DD 8-DD 8-DD 8-DD 8-DD 8-DD 8-DD 8	,	.'] ,		(MZ).			() () () () () () () () () ()	2	9		\$ P				7					3/			£.
8-DL 8-N-1000 1247 5638 5642 646	7-BD		, ×	J.	- ×		1	2	8-8	9		D-8		8-CS		8-D8		8-DC		8-DD		8-DK	
8-DL 8-N-1000 1247 5638 5642 646 5641																			-				
8-DL 8-DL 8-DL 8-DL 8-DL 8-DL 8-DL 8-DL	S. S.	12/4	17-	50	4	5	4	1	15/5/	1	Sales	E.			a X	1	(-1			P			/
8-DL 8-V 9-G 9-H FM-1000 1247 5638 5642 646	A LE	36	{}	- >			25	=)	2)>	N. W.	7			X	-	1		'F,	1 KEX	0	T D	~	_
8-DL 8-N 9-G 9-G 9-H FM-1000 1247 5633 5638 5642 646 5642		3					I		5) (3) (P	8	9	8	/ -			3	ĵ	
8-N 9-G 9-H FM-1000 1247 5638 5642 646 5642	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	THE YES	K	JE)	<:	(E)	W.	- (He)8)	3	3		2/3	07.5	3	2	>			9		9	
8-N 8-V 9-G 9-H FM-1000 1247 5638 5642 646 5641		(z)-				3)	الم	1	16	3			7	[j	-	3	1			//	<i>></i>		
1000	200	•/	2 2	> 2	À	0	\	0		, A	1000	/ •	047		26.93		0	244		ARROW INDICATES PLAT	TE LEAD		מרות אינות אונות אונות אינות אינות אונות א
	70-0					2							147		2000	200	000	3	7.	010		204	

SYMBOLS FOR BASE DIAGRAMS:

A—Anode: A1—Anode 1; A2—Anode 2; D1—Deflector 1; Dp—Diode Plate; F—Filament Center; G—Control Grid; Gm—Modulator Grid; Gm—Modulator Grid; Gm—Modulator Grid; Hi—Heater Lap: IC—Internal Connection; F—Cathode; NC—No Connection; P—Plate; Rc—Ray Control; S—Metal Shell; SA—Starter Anode; Su—Supplessor Grid; J1—Target: Sc—Ray Control; S—Metal Shell; SA—Starter Anode; Su—Supplessor Grid; J1—Target: Anode; J1—Target: Rc—Ray Control; S—Metal Shell; SA—Starter Anode; Su—Supplessor Grid; J1—Target: Rc—Ray Control; S—Metal Shell; SA—Starter Anode; Su—Supplessor Grid; J1—Target: Rc—Ray Control; S—Metal Shell; SA—Starter Anode; Romer S—Su—Supplessor Grid; J1—Target: Rc—Ray Control; S—Metal Shell; SA—Starter Anode; Romer S—Supplessor Grid; J1—Target: Rc—Ray Control; S—Metal Shell; SA—Starter Anode; Romer S—Metal Shell; SA—Starter Anode; Romer S—Supplessor Grid; J1—Target: Rc—Ray Control; S—Metal Shell; S—Metal

CHARACTERISTICS SYLVANIA TUBES - AVERAGE

						Note	000											Ohms	Undis-	
Construction			F	Emitter		Capacitances in µµf.	ances µf.		Use	Plate	Negative S		Plate Current	Screen	Plate Resistance	Transcon- ductance	Ampli- fication	Load for Stated	Power Output	Type
Class Diag. Type		Type		Volts	Amps.	Cgp.	Cin.	Cout				Volts	Ma,	Ma.	Ohms					
Pentode 5702 Cathode		Cathode		6,3	0.2 0	0.03m	4.4 3	3.5 R.		120	Self	120	7.5	2.5	340,000	5,000	0.5	(Rk = 200)	Ohms)	5702
	†	Cathode		1	100		+		VHF Det.	150 Volts,	, RMS Plate,	9 Ma	Sutput	Current.		2000				5704
8DK-0-0		Cathode				1,3	2,4	2.4	Amplifier	100	Self		13.0	:	4,650	5,800	120	(Rk = 150	150 Ohms)	5718 (3)
Triode 8DK-0-0 Cathode	+	Cathode		-	0.15 0	8.0	1.9	2.2	Amplifier	150	Self		10		30,500	2,300	70	H		5719 (3)
5CB-0-0		Filamen	l i					20			Noise	rator	e lb							5722
+		Cathod		6.3	0.175 0	0.01	3.0	3.0	Amplifier	120	120 2 1	20	5.2	3.5	3,200					5725 (3)
Triode 58C-0-0 Cethod		Cathod		+	•	1.3*	1.0*0	0.4*		06	2.5	0	2.5	מוופוור ב	14.700	1.700	25			5731
										135	3.75		w 4 t	- 1	13,200	1,900	10100	20,000	135	
open.	-	Podde	_	6 2	0 6 0	80	0 1 0	0 4 C	Osc. Amp.	_	Solf		٥٠/	(Class C)peration)	4 000	70	(RV = 500		5744
le 9A-0-0	+	Cathode	Ann	-	20				Audio Amp.	Characteristics Same	tics Same a	as Type 12AX7	AX7. For F	For Reliable Operation.	eration.		Cout Sec. 1		-	5751 (3)
Gas Diode 5783 Cold K		Cold K	-	H					ulai	or with St.	arting Volt	age at 115	Volts, Ope	rating Vol	Operating Voltage 85, Operating Current 1.5	erating Curre	ant 1.5 to 3.5	Ma.		5783
5784		Cathod		6.3		0.03m	3.9	3.0	Amplifier	120	8	120	5.2	3.5		3,200	:			5784
5785		Filamen			0.015			I	H-W Rect.	1235 Vol	1235 Volts, RMS Plate, 100 us D-C	ate, 100 ut	D-C Outp	Output Current.						5785
Gas Diode 5783 Cold K		Cold k	_	. 0 20				> 0	9	tor with St	terting Voll	4 2 E	Volts, Op	erating Vol		Operating Current 5	to 25	Ma.	0000	5/8/
		Cathor	-	+	0,00			2 4	E W Doct	200	Volte Der D	Jaka DAAC	65 M4. Q.	tour Curren	a condend	Doug to Fil		20.	+	5020 (3)
0-0-60		Camo			00.0	:	:	:		00 A-C	Volts Per P	late RMS,	60 Ma. O	itput Curren	400 A-C Volts Per Plate RMS, 60 Ma. Output Current, Choke Input to Filter.	ut to Filter.	iter.			(2)
Duodiode 65-0-0 Cathode		Cathoc	34		0.285					Characteris	Characteristics Same as Type 5838.	s Type 58.	38.				7		1	5839 (3)
8DL-0-0	-	Catho		6.3	0.15	.015m	4.2	4		100	Self	100	7.5	2.4	280,000	2,000		(Rk = 15)	150 Ohms)	5840 (3)
Duodiode 5CA-0-0 Filament		Filame			0.435	: 0	-	00 0	Diode	300m	-		2.0m	: :		. 00		(DI. = 44)	1000	5845
		Filamer	- 1		6	0.055	. 6		R-F Amo	195	-	195	10.10	0.0	175 000	1,500			-	5851 (3)
				2.50	10					180	7.0	135				3 :			650	
65-0-0	1	Cathod	-				_			Characteristics Same	tics Same a	as Type 5838.	38.							5852 (3)
0-0-0-0		Catho				0.7.	0 7 0	, v	Power Amp.	OFO	OFO 3 100 1 8	100	- SG -	A 0	9 000 000 0	4 000				5870
Pentode 75-0-0 Cathode		Catho			0.00	\perp	<u> </u>		Amp.	haracteris	Characteristics Same as Type 6L6G	s Type 6L	6G.		1000,000,4					5881
5889		Fileme		1.25	7.5Ma	:		4		12	8.0	:	.005	300.	1.8 Meg.	(Fo	(For Low Grid C.	Current Applications)		5889
8DJ-0-4		Catho	1 3						Rect.	50 Volts	Per	Plate, 18 N	Y	Output Curren						5896 (3)
Triode 8DK-0-0 Cathode		Catho			0.15	1.3	4.01	2.4 R	R-F Osc.	150	Self			: :	4,650	6,500	27	11 11	150 Ohms) 180 Ohms)	5897 (3)
Triode 8DK-0-0 Cethode		Cetho		6.3	0.15 0	8.0	1.9	2.2 A	Amplifier	100	Self	:	0.73	:	41,000	1,700	07	(Rk = 15(1500 Ohms)	5898 (3)
Pontode RDI .0.0 Cathode	+	Catho	4	6.3	0.15	015m	4 4 3	3.4 R.	R.F Amo	100	+	100	7.9	0.0	960,000	4 500	2	1 1	120 Ohms)	5899 (3)
8DL-0-0		Cath	ļ.,	+		.015m	4	4	Amp.	Characteris	ame a	1 Type 5899.	99.	4	20,004	2004				5900 (3)
8DL-0-0	t	S S		+-	+	.015m	+	4		100	Self	100	7.5	2.4	280,000	5,000		(Rk = 15)	150 Ohms)	5901 (3)
8DL-0-0		Cath	Ц.,	+	0.45 0	0.20m	-	2		110	-		30	2.2	15,000	4,200	(Rk =	35		5902(3)
6AR-0-5		File	1	+		,008m	3.6	7.5 R.	-	06	-	+	1.6	0.45	1,500,000 +	006	1:			
P 7CH-0-0		Cet			0.30					150	0	75	5.8	0.6	20,000	:		(Rg0 = 47,0	47,000 Ohms)	5915
4D-0-0		Filer	_	10.5	2.5			Po		haracteris	Characteristics Same as Type 2A3.	S Type 2A	13.							5930 (3)
0-0-16	1	FIIB	4	-	3.0			- 0		Characteristics	Stics Same a	Same as Type 5U4G	5046.							5931 (3)
		3	Cathode	-	T	4 16 4	10*	0 5*	-	67 5 0	20116	03 1 V De OF	10		7 850		66			5963 (3)
						::		_	Freq. Divider	150	0		5.1	: :	(Rb	= 20,000	Ohms)	: :		
Duotriode 7BF-0-0 Cet		3	Cathode	_	0.45	1.3*	2,1* 0	0,4*	Computers	100	Self	: : :	9.5	:	6,500	000'9	39	(Rk = 50	50 Ohms)	5964 (3)
+	+	Cath		+		H	+	+	-	100	Solf		0.0		3.650	4.500	16	(Rk = 270	Ohms)	5977 (3)
Triode 8DM-0-0 Cathode	+	Cath		+	0.45	01,01	3.2	5.0 A		+	18		0.6			1	4.1	١.		5987 (3)
e 5T-0-0	\vdash	Filam		+		:	+-	F		Volts	RMS Per	Plate, 120	0.0	Output. Con	Condenser Input	to Filter.				6004
7BZ-0-0		Catho	Ŀ	6.3	0.45	:		Po		-	10.00	180		OH	58,000	3,700	:	5,500	2,000	6005 (3)
				-				Q.Q.	P.P. Class AB1	250	-		70.	4 10	Current er	od Outout fo	or Two Tubes		10,000	
Duotriode 8DG-0-0 Cathode		Catho		6.3	0.3	1.4	2.1	U.H.F	Amp. #	100		-	6.5	:	6,480 ♦	5,400	35	1000		6021 (3)
Diode X6030 Filament		Filan		3.0m	9.0	:		Ž	Noise Diode	8			4.0m	:						X6030
									- An-	250 400	:	: :	3.0m .535m	: :		: :	: :		: :	
Duotriode 78F-0-0 Cat		Cat	Cathode	6.3	0.35 1.	1,3×	2.0*	Ť	Amp. #	- 3	1 = 0.456		0.6	:	5,940 0	6,400	00 M	Cathodes Tied Together	Ohms d Together	6045
8DJ-0-4		3	thode		0.30					50 Volts	150 Volts RMS Per Plate, 18 Ma. D.C.	Plate, 18 N	D-C		Condenser Input to Filter.	o Filter.				6052 (3)
Duodiode 8DJ-0-4 Ca		3	Cathode 26.5		0.075				Detector	150 Volts	150 Volts RMS Per Plate, 18 Ma.	Plate, 18 h	Aa. D-C Output.		Condenser input to	正				6053 (3)
8DK-0-8	- 1	3 3	hode 2		ي زنن	1.80.	2.20 0 4 0 3	2 A A	mplifier	20.5	Self	. 2 40	3.0	-	100 000	2,000	18.	(Red = 2.	2.2 Megs.)	6056 (3)
8DL-0-0	- 1		2 900						Ampliner —Pa	4e 30	Self	20.3	Z. /		000,001	200'6		i i	Mega:	(5) 000
		١																		

CHARACTERIST SYLVANIA TUBES - AVERAGE

	Туре	6110 (3)	6111 (3)	6112 (3)	6145	6205 (3)	6206 (3)	6287 (3)	6308 (3)	6350	6352		9001	8006	9003	*000	9006	XXD	XXFM	XXL	meximum	Cathode Resistor	7:	ラバ		N. A.		6-8T	100		000000	オートくノ	()	8-DJ			D 1	1 (a) 1 (b) 1		ix 1.	×-6						or Grid:
Undis- torted Power	Output Milli- watts				: :	:	off.	4,500		:										:	E :	•			101					No.	(=		5					78	\(\frac{1}{2}\)				44				Go-Oscillator Grid
Ohms	Stated Power Output						Semi-Remote Cutoff.	000′9	Max.		1										de Operation.	Plate to Plate. Approximate				25		H8-9			0 0	<	(32)	8-DG				0	3	25.0					3	5889	er Grid: Go-
	fication		80	70			Sem		at 3.	œ —	1.1 Ma.			52						25	Pentoc	Plate t	\ \tag{\text{\text{\$\exitting{\$\text{\$\exititt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\}}}}}}\$\text{\$\text{\$\text{\$\text{\$\texittit{\$\text{\$\tex{\$\text{\$\text{\$\texitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\tex{	,	121	ジン	`			6								Te Te	<i>Z</i>	·/			MED WARM				m-Modulat
Transcon-	ductance	26.4 Ma. Per Plate.	4,750	1,800	9,700	5,000	4,500	4,100	Its and Curren	4,600	Max. Ib. =		1,400	2,200	1,800					3,600	2,300 ,000 ohms.	ductance.						6-AR	10/0			()		8-DC	12/19						<u>ک</u> (4		<u>y</u>		5785	ode Grid. G
Plate	Resistance	1	4	38,900	0.1 Meg.	0.26 Meg.	0.26 Meg.	55,000	ige at 87 Vo	3,900	Eb. = 275.		1 Meg. Min.	11,400	100,000					000,7	d through 20	Conversion Transconductance. Triode Operation.				TO TO	`		Ky Ky	THE TENT	12	ない	7		/6		(6s)	(B) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C		λ			MARK.	3			id. Ga-An
Screen	Ma.	Anode Current			8.0	2.4	2.0	5.0	Operating Voltage at 87 Volts and Current	:	4.0. Max. E	-	0.7		2.7	40.00				:	Applie	A Conver		Y Z		(1) (SW)		2-T	10	3/2		\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	- NO. /	7-5	THE VE			K) 3	Y-AD	1		()	# (3)	5784	1, Dp-Diode Plate; F-Filament; Fc-Filament Center; G-Control Grid. Ga-Anode Grid. Gm-Modulator Grid.
Plate	Current Ma.	Volts. Peak	5.5	1.75	34	7.5	7.5			11.0	Max. Ef. =		2.0	6.3	417 Volte PA45 Plate 5 M4 D C Contact	117 Volte RMS Plate 1 0 Ms. D.C. Output.	270 Volts RMS Plate, 5 Ma. D-C Outout.			10.0	000 ohms.	y Voltage.	5	7			1	9	(5)	5	Toll		Š.	J	G	8	9			1	4	r	- ARED				ent Center. G
	Volts	Voitage = 460	1		-	100		250	Starting Voltage at 115 Volts,	:	ited Dioge.		100		Dieta K h4z	Plate 1 0 M	Plate, 5 Ma			:	through 250,	Per Tube or Section. Plate and Target Supply Voltage.	-04	.				5-CB						7.CH	EX.			1 S) 3	۷- ۸] ((2)	5783	t. Fc-Filam
	Volts Volts	Peak Inverse Vo	220	100 1500m 150 820m	ļ.,		0 120			2.0	Temperature Limited Dione.		_	-	7 Volte 0140	Volte RMS	O Volts RMS			0.0		# Per Tube	970	X	0		<u>\</u>	5-CA	Ž.		3	, K	Ŝ\	7	A	J.) 		N. C.		>	/ <u>.</u>	THE WARRY	(a)		44	. F-Filamen
		١.					Amp. 100	Amp. 250	200	ter # 150	T	_	+	+	+-			1		ifier 100	-	Grid. grid.	7) 9:	Į/	NO.	- (=		2 (1)	× × × × × × × × × × × × × × × × × × ×		7-BZ	F	3	الا	いるゴ		J'	ž į		[<u>^</u>	() () () () () () () () () ()		5744	Diode Plate
	ose Co	UHF Det	28 Med.		L	U-H-F	U.H.F		+	Computer #	Regulator	+	1	+	+	H-W Rect	H-W Rect.			Amplifier	aracteristics.	Iw. Grid to Grid.		5	or l			O U	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		19	() () () () () () () () () ()	, so	S	L. E.			天		\ >	• /		NED MARK	٩	<u>.</u>		i .
Note (') (²) Capacitances in $\mu\mu$.	Cin. Cout	\vdash	1.9 0.28	1.7 0.2		4.2 3.4			-	3.0	:	+	t	7.7	+						nd/or life c	ut of 320 h Its RMS app			45			5-BG		X CZ		\\\ -3		7-88	The state of the s	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				9 6	7-0	4][<			5704	1 -Deflect
Note Capac	Cgp.		7.7	1.0		.015	c10.	1.1m		3.2	:		50.0	4.0	E - 0.0					:	mechanical a	With Average Power Input of 320 Mr	73	2			HORT END	<u></u>	\(\frac{\sigma}{2} \)					بيد	L.	\(\frac{1}{2}\)		7-00	<u> </u>	À,	. /		A LANGE	40	-).;	03	Anode 9.
	Amps.		0.3	0.3	9.0	0.15	0.15	9.0	: 3	0.0	Щ.		0.10	0.0	0.15	0.15	0.15			0.30	las special	/ith Avera		1			VIEWED FROM 1	5-BC	-(=			() -3		7-BF	1	EX.	1	9			6	4		X)		5703	1. 49-
Emitter	e Voits		Cethode 6.3	Cathode 6.3	Н		ode 6.3	_		12.6	_	J7		4	Cathode 6.3	+	Cathode 6.3		!!	Cathode 6.3			A See	(0)			1		/sin		191		· ·		for	(°)		F	28	λ.	5	-	NA NED	3			1-Anode
	Type	Cathode	3	3	Cathode	-				Cathode	0 Filament			t		+	+					d to plate;	R					5-AC	4			<	△	7-8D	E C	1 de 1/2	H		.) Ž			4		1	3	5702	A-Anode: A1-Anode 1; A2-Anode 2; D1-Deffector
u _o	Basing Diag.		BDG a	• 8DG	8V-0-5		_	9CT-0-0			8EY-0-0	0002	700.00	702-0-0	481.0.0	58G.0	0-0-H89	J/XXD	TXT	SAC-L-0	rked with (re signal gri	E Company				\		4	Te Te			7		4			7		\	4				R		Ä A
Construction	Class	Duodiode	Duotriode	Duotriode	Pentode	Pentode	Pentode	Beam Amp.	Cas Diode	Decinon	Duodiode	+		Don't	+	Diode	Diode	Now Listed as 14AF7/XXD	Now Known as Type 7X7	Triode	led unless ma	ances given a		THE STATE OF THE S				4-D	6	X			NIN TO SERVICE	9-S	- C.	X X X				8-DL	The state of the s			1	2	X-6030	DIAGRAM
	Bulb Size or Style	T-3	T-3	T-3	1-9	T:3	T-3	T-61/2	1-3	1-0-/2	L-3		Miniature	Miniature	Acorn	Acorn	Ministure	Now List	Now Kno	Lock-in	given shield	Mixer Outpu	ST.				0.7 1		L	(E) (S)	15				Lot		I		3	}				سند			OR BASE
	ADA	6110 (3)	6111 (3)	6112 (3)	6145	6205 (3)	9039	6287 (3)	6308 (3)	0650	6352	2000	0000	2000	9004	9005	9006	CXX	XXFM	XXL	(1) Values are	(x) Convener tube capacitances given are signal grid to plate; RF Input, Mixer Output.		1			157	4-8				TY Y		10-9	TIE			[<	المحرارة الم) 2	8-DK						SYMBOLS FOR BASE DIAGRAMS:

TUBE TYPE BASE ARRANGEMENTS

State Stat	BASE	TYPE	BASE	TYPE	BASE	TYPE	BASE	TYPE	BASE	TYPE	BASE	TYPE	
15.00 15.0													
State Stat	AS	OAS	5-BQ		Z	68Y5G, GA		12AV6, 68F6, 12BF6, 6BK6,	8-AF	25D8GT	 	4A6G	
100 100	36	2E31, 2E35, 2E36	2-BS		2	25B5		12BK6, 26BK6, 6BT6, 12BT6,	8-AJ	1D8GT, 1B8GT	Z å	6AB7/1853, 6AC7/1852,	
100 100	41	2E41, 2E42	3-BT		뱃	2575, 25Z5		6BU6, 12BY6, 26C6	8-AL	707, 1407		6AJ7, 6SD7GT, 6SE7GT, 6SJ7,	
A	100	0001 0000	S.RU	Ī	15		7-BW	XXB. 3C6	Z 4 -8	50Y7GT. 50Z7G		65J7GT, 65K7, 195K7, 6557	
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	1	1000	K 0.7			KOAC	7.07	ADER	0	44717/NATCT		10517 10517GT 105W7GT EADS	
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	ر	1000					4	10000	(+		(E600'10'1901'10'10'10'10'10'10'10'10'10'10'10'10'1	
15. 15.	4-	1A1/5E1, 181, 1C1, 1D1, 1E1,		7, 52	יי ט	2A6, 55, 555, 75, 755, 85,		19AQ5, 3585, 5085, 6005	S-AS	3A8GT	Ö m	osar, osargi, oskr, gr,	
12, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15		1F1, 1G1, 1J1, 1K1, 1X1, 1Y1,	-	3845		85AS	۲- اب	2A7, 2A75, 6A7, 6A75	8-A V	117N7GT, 117P7GT		6ST7, 6SZ7, 12SQ7, 12SQ7GT,	
12, 11, 11, 11, 11, 11, 11, 11, 11, 11,		121, 2, 3, 4, 5, 6, 7, 8, 9	-		ĭ	79	7-C ♦	6Z4	8-AX	1LB6		12SR7, 12SW7	
15. 15.	AA	11 F3, 1903	=		3	675	7-CB	172	8-AY	6AD7G	8-60	65A7, 65B7Y, 125A7, 125Y7	
15, 15, 15, 15, 15, 15, 15, 15, 15, 15,		OF 67 67 67 6	20 2	,	7	47K	7.01	ARVA	0	STAN STAN STAN TAN	0	ACC7 GT 49CC7	
March Marc	AR.	272/8/9	ילו	,	{ }	777	5	,	9 6	10 10 10 10 10 10 10 10 10 10 10 10 10 1) H	POST COOR	
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	-AC	3A3, 6Y3G	2-0		-K4	0AU4, 0K4		x000, 5915	28-8	XC3X, 0A3/GI, 08L/GI,	200	TXBBGI, XDBBGI	
Name	-AD	83	5-E		7	1A6, 1C6	7-0	3E6		6BX7GT, 6SL7GT, WGT,	∂-	1A8	
100 100	7	184 7C4	7.5	-	×	100	7.CM	6BJ6.		6SN7GT, GTA, WGT, 6SU7GT,	>-8	7A7. 7AD7. 7AG7. 7AH7	
Color Colo		O 4 3 (V.Date Op.) OC. Op.	-			AACKGT AADKG GT		ACEA ADBA		CTV 40C 7CT 40CN7CT	,	ביסר ביסר באלד דולד	
14 37.05 3	4	CA3/ VK/3, OB3, OC3, OD3,				יום יסיים יוסיים		יסססס יסטססי		CITY, IZSET CITY IZSINICITY		101, 101, 161, 161, 161,	
State Stat		1265	2-F	5V4G, GA, 5Z4		6AESGI, 6AFSG, 6CS, G",		12AW6		125X7G1, 5691, 5692		7H7, 7L7, 717, 7V7, 14A7,	
150 150	ANA	6006	5-M	6F5. 6F5G. 6G5GT. 12F5GT		GT*, 6J5, G, GT, 6L5G,	7-00	2E30	8-BE	6AH7GT, 12AH7GT		14C7,14H7,1231,1273,1980	
90.74. O'VIG. 91.72. 10.10.10.10.10.10.10.10.10.10.10.10.10.1	0	070/0204 04	0.2	SX4G 5Y4G		APSGT 1915GT 95ACSGT	7.CX	5670	D DE	7К7		1984 6145	
17.22 0.00	9 1	124, 001, 01	5 6			1004 4004 40FECT	1	200 20 20 20 20 20 20 20 20 20 20 20 20			/A1 0	104 4 404 ACK ALK ALK	
17.227, 10, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18	-87	9004	N-K			684, 10x0, 1xE3G1	\-\\ \-\-\	0A33, 33C3, 30C3	6-67	M M	M-0	180, 1480, 10, 180, 14E0	
11/22 10 12 13 14 14 14 14 14 14 14	-BU	OY4, OY4G	5-5	_	2	2E5, 6AB5/6N5, 6E5, 6U5, 6T5	7-0	384	8-BK	65G7, GT, 125G7, 65H7, GT",	×	788, 1488	
5.1 5.4 5.4 5.4 5.4 5.5		5X3, 5Z3, 80, 82, 83, 1975			S-S	6AX5GT, 6W5G, 6X5, GT,	7-D	2B7, 2B7S, 6B7, 6B7S		12SH7	8-7	6AG7, 6AK7	
Second Color Seco	, 5	44773	j- M	A KAYAGT KAZA		6X5WG1 6775G 1974 5830	7.DR	AMAK	10.0	717 1417 757 1467	8.7	391 7GT	
March Author Au	רמ.	11/23	-	10 10 (C) (C) (F) (C) (F) (C) (F) (C) (F) (C) (F) (F) (F) (F) (F) (F) (F) (F) (F) (F		, coc, train, company of the company	1 1		0-0		1		
Standard	5	OAU4GI, OAX4GI, OU4GI,		d		0	٠ ٢	1L6, 106	Z - 22 - 20 - 20 - 20 - 20 - 20 - 20 - 2	/63	V-X	'ZAOI'	
10		6W4GT, 12AX4GT, 25AX4GT,		I, 573G, 5931, 6004		o A 2 G	7-DF	OBNO, 128No	8-80	1AB1		12AX1, 12AY1, 12AZ1,	
150, 150, 150, 150, 150, 150, 150, 150,		25W4GT	2-€			1F6	7-DK	6AF4, 6AN4, 6T4	8-BS	28D7, 28D7W		12BH7, 12BZ7, 5751, 5963	
1900	Z	5644	5-7	=	××	1A5GT, 1C5GT, 1F5G, 1G5G,	7-D₩	12H4	8-BU	12L8GT. 26A7GT	9-AC	654	
12	, ,	00 04 043 40		_		4 150	70.	7 A 4 7 X 5 1 X X	\d 0	70.0	0.AD	5870	
124, 126, 126, 126, 126, 126, 126, 126, 126	۲	יסן יבשי מאזי וסי	=		4		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	2000 1000 1000	A 0-0	710	1	6110	
18.4 18.4 18.5		12A, 20, 26, 30, 31, 40, 45,		3G, 1H3G!	<	An .	ų.	011, 0113	₩ SI-B	178, /r8W, 14F8	Y-AE	808	
148, 180, 6 AA 148, 146, 146, 146, 146, 146, 146, 146, 146		50, 71A, X99, 182B/482B,	=		-AA-	1H6G	7-EA	6CR6	8-BZ	7X7, 14X7, XXFM	9-AG	12A4, 12B4	
1.50 1.50		183/483 910-T 864 1976	-		-AB	1G6GT.1J6G	7.F	19A5	۵-8	1E7G	9-AH	6V8, 19V8	
Continue		VIEW 4000 F000	_		O V	1E7G*		2,5	900	ACOCT 10COCT	0.4	KRKT KRKTA KRNT KROTT	
VALUE VALU		VIDX, 1230, 3930		2001007 22007	2 :		p :		0-5	03001, 123001	2		
1447, 1823 1899 6-AF 332546, 40254, 422547 7-AF 6-ABGG, 6-AFGG 7-AFGG	ų.	662	9-AB	10010	- Ar	1r/GV	Į.	001,001	E-CI	OAL/GI		080 / A, 082 /	
1.441, 122, 33, 12599	5	1V, 12Z3	6-AD		7-AG	6AD6G, 6AF6G	7-K	12A7	<u>چ</u>	2C51, 5670	9-AK	6X8, 19X8	
1,44, 184,	K	1 A &T 99 39 1999	6-AF		Y-AH	6AE6G	7.0	6AX6G. 50AX6G. 6H6. G*	8.CK	6AQ7GT	AX -6	6BJ7, 6BC7	
1,000, 1,000,	2	4 4 40 40 40 34	* * * *	ATO TO S	7	11 A 6 11 C 6	5	CI* 10H6 OFYGET FOVEGT	2 0	470 450	Cao	643	
174, 0244, 0244 0-40, 238 dots 1-44 1054	Y-	A4F, 184F, 34	W 2-6		2 -	יבאט, ובכס		יובטיים ליבים (יובטילבים)	2 (100, 1E0	20.4		
Fig. 1116 G-AO G-V5GT T-AO T-CT, T-AO T-	4	172		150Cogg	-AL	1029		45.20, 35.20G, 50.20G, 11/2-	0	2	7-BF	1287/	
Fire, Fire	-R	OZ4, OZ4A, OZ4G	6-AO		Y-AM	1N6G		6GT	8-CP	1AC5, 1AD5, 1V5, 1W5	9-8Q	6BK5, 25BK5	
QA45, 1867 GAR (14, 144, 114, 114, 114, 114, 114, 114,	1	1F1G, 1T1G	6-AP		-AO	1LC5, 1LG5, 1LN5	7-R	6J7, 6J7G*, 6J7GT*, 12J7GT,	8-00	6AW7GT	9-RV	6CL6	
2.W3 6-AS 6887, 128A 7 671 1183 7-AI 1183 7-AI 1183 7-AI 1183 7-AI 686G, 6NGG 6NGG <td>. ></td> <td>O & & G 1967</td> <td>A A B</td> <td>_</td> <td>7.AP</td> <td>385GT 305GT 3C5GT</td> <td></td> <td>6K7 6K7G 6K7GT 19K7G</td> <td>2.00</td> <td>2404</td> <td>2 0</td> <td>5 14 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5</td> <td></td>	. >	O & & G 1967	A A B	_	7.AP	385GT 305GT 3C5GT		6K7 6K7G 6K7GT 19K7G	2.00	2404	2 0	5 14 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
2.473 2.474	> >	80%		101 111 111 111 111 1	TV	4 PF		19V7GT ACT ACT ALITO	3 5	4D A 7 10D A 7	79-6 1	0AJ4, 0AM4	
1.40 1.45	K :	z w 3			7	CALL CALL		12N/G1, 631, 63/G, 60/G,	מ-ני	/ Yazı / Yago	٥ <u>-</u> ٥	EF50	
323 3,565, 56.45, 64.05 56.45 56.45, 56.55 56.45 56.45 56.45, 56.55 56.45 56	-	2036	0-A5		- AC	oAgod, oNoc		OW /G, 1223, 1020	8-DA	156, 110	9-CK	6CM6, 12CM6	
27 7.4 6.66G 7.4X 6.4FGT 7.4A 6.6G 7.4A 6.6G 7.4A 6.6G 7.4A 6.6G 7.4A 7.6A 6.6G 7.6A 6.6G 7.6A 6.6G 7.6A 6.6G 7.6A 6.6G 7.6A 7.6B 7.6B <th< td=""><td>7-1</td><td>35Z3</td><td>0-AU</td><td>155</td><td>-AV</td><td>154</td><td>7-5</td><td>6F6, G, 6G6G, 6K6GT, 6L6, G,</td><td>8-DB</td><td>5635</td><td></td><td>T C C C</td><td></td></th<>	7-1	35Z3	0-AU	155	-AV	154	7-5	6F6, G, 6G6G, 6K6GT, 6L6, G,	8-DB	5635		T C C C	
1.045, 885 6-AX 1LD5 1.AZ GSF7, 6SV7, 1928T7 6W6GT, 6VGG, GA, 18A6, 8-DD 5643 9-CT 25Z4, 3Z4GT 6-BA 2AS, 18,41,42,43 7-B 6A6, 6E6, 53, 5608-A 17.8C 3.55.6G 17.8C 9-CT 9-CT 17.8C 9-CT 9-CT <td>Y-</td> <td>27, 275, 37, 56, 56S, 56AS,</td> <td>=</td> <td></td> <td>-AX</td> <td>6AE7GT</td> <td>,</td> <td>GA, GB, 6U6GT, 6V6, GT,</td> <td>8-DC</td> <td>5636, 6205, 6206</td> <td>٤</td> <td>1000</td> <td></td>	Y-	27, 275, 37, 56, 56S, 56AS,	=		-AX	6AE7GT	,	GA, GB, 6U6GT, 6V6, GT,	8-DC	5636, 6205, 6206	٤	1000	
928, 3524GI 6-B 2A5, 18, 41, 48, 43 7-B 6A6, 6E6, 53, 5608-A GGI, 12V6, 25A6 GI, 23B6G, BDG BDG BDG 1124, 1474 CBA 354, 304 35608-A 354, 304 3508-B 354, 304 3508-B 354, 304 3508-B 354, 304 3508-B 3508-B 3518-B 3518-B <th< td=""><td></td><td>76, 485, 885</td><td>=</td><td></td><td>-AZ</td><td>6SF7, 6SV7, 12SF7</td><td></td><td>6W6GT, 6Y6G, GA, 12A6.</td><td>8-DD</td><td>5643</td><td>9-CT</td><td>6287</td><td></td></th<>		76, 485, 885	=		-AZ	6SF7, 6SV7, 12SF7		6W6GT, 6Y6G, GA, 12A6.	8-DD	5643	9-CT	6287	
7/4, 7Z4, 1474 6-BA 3D6, 3LE4, 3LE4 7-BA 354, 3O4 25CGG, 25L6, GT, 25W6, 6112 9-CZ 7A4, 7Z4, 1474 6-BA 15A6GT 7-BA 354, 3O4 35.6G, 25L6, GT, 25W6, 6-BA 15A6GT 8-DL 6-BA, 6082, 6053, 6110 9-DA 1-A4, 1LB4 6-BB 15A6GT 7-B 3A4 7-T 6LT, 6LT, 6LTG, 1612 8-DL 5086, 6052, 6053, 6110 9-DA 6-BB 6-BB 9006 6-BH 9006 9-DA 9-DA 9-DA 1-BH 6-BB 9006 6-BH 9006 9-DA 9-DA 9-DA 1-BH 9006 9-BB	A A -	9574 3574GT	8.9	18. 41. 49. 43	2	6A6 6F6 53 5608-A		GT 19V6 25A6 GT 95R6G	20.0	6RF7 A 6RG7 6091 6111	9-CV	6AM8	
144, 144, XXL C-BD 15A6GT 1-BB 3A4 1-BB 3A4 1-BB	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	744 477 444	6-B A		A H	354 304		95CAG 951A GT 95WA		6110	0.07	6350	
1,44,1184 6-8E 158604 154604 1,485 1,444,1184 6-8E 158604 1,444,1184 6-8E 1,444,1184 1,4	0	1/4, 124, 14/4	(000			1000		2500, 2500, 01, 2540,	-	2777	7-4		
1.0.0	-AC	1A4, 184, 14A4, XXL	o-BU		200	3A4		sacoul, sucou, sucoul,	g-6	2890, 0022, 0033, 0110	AD-6	OANS	
6+HGT 6-BG 6C4,18G4 7-BD 6-AG5, 6-AJ5, 6-AK5, 6-AN5, 7-T 6-L7,6-L7G,1612 5719, 5897, 5898, 5977, 6055 9-E 1LH4 6-BH 9006 6-BH 9006 9-G 7-V 6-BH 9005, 5897, 5864, 5785, 7785, 7-U 6-FTG 6-BH 5897, 5897, 5899, 5890, 9900, 9-G 9-G 1LH4 6-BH 9006 9001, 9003 7-V 6-BG, 607, 607G, 607G, 607G, 607G, 6056, 807, 6056, 807, 607G,	-AD	1LA4, 1LB4	9-BE		-8C	3A5		5824, 5852, 5871, 5881, 5932	8-DK	6AD4, 6AK4, 5637, 5718,	9-DT	3A2	
1LH4	-AF	6H4GT	6-BG		-BD	6AG5, 6AJ5, 6AK5, 6AN5,	7-1	6L7, 6L7G, 1612		5719, 5897, 5898, 5977, 6055	9.6	ARR ATR 10CR 10TR .	
3574 6-BJ 28Z5 9001, 9003 7-V 686G, 607, 607G, 6	- AG	11 HA	6-RH	9000		6BC5, 5590, 5591, 5654, 5795,	7.11	6P7G	R.DI	5639 5640 5840 5899 5900	7-6	010, 100, 100, 100	
1-8F 6-80 2050, 2051 1-8F 307, 5043, 6045 1-80, 1207G, 10470, 647G, 18-DM 5971, 5050, 9-H 143. 1-8F 6-85 2050, 2051 1-8F 616, 1916, 5643, 6045 1-80 1207G, 1207G, 167G, 18-DM 5971, 5050, 9-H 1005 1-80 1-80 1-80 1-80 1-80 1-80 1-80 1-80	2	200	10.0	2000		0004 0003		19104 9104 104 9484	7	FOOT FOOD 40E4	9.G	5686	
452.3 6-BQ OAKO 7-BE 3B7 17207G1, 1207G1, 087G1, 180M 8-DM 5987 9-L 143 6-BS 2050, 2051 7-BF 616, 1916, 5643, 6045 7-W 677G, 6V7G1, 187G1,	-AL	3074	0-67			5001, 4003	^-	מפספר, סכרו, סכרוס,		3901, 3902, 8036	H-0	5687	
6-BF 2050, 2051 6-BF 6-AL5, 12AL5, 5726 6-BF 6-AL5, 12AL5, 12AL5 6-BF 6-AL5, 12AL5 6-BF 6-AL5 6-BF 6-AL5, 12AL5 6-BF 6-AL5,	MA-	45Z3	0-BQ		-BE			0761,	8-DW	2987		- N	
1005 6-BF 6AL5, 12AL5, 5726 7-BH 2C21 7-W 6AC6GT, 25N6G 8-DY 6BA5 9-M 2C4 6-BW 1U5 7-BJ 6AN6 7-Z 1A7G, 1A7GT, 1B7G, 1B7GT,	-AP	1A3	6-BS		-85			6T7G, 6V7G	NQ-8	103		240	
2C4 6-8W 1U5 7-BI 6AN6 1-Z 1ATG,1ATGT,1BTG,1BTGT, 8-E 6B8,6BBG*,12C8 9-N 6D4 6-BX 3E5,3V4 7-BK 6AH6,6AK6,6AU6,12AU6, 6ABG, 6ABGT,12ABG, 8BGG*,12C8 8-EL 6AH4GT 9-N 6-C4 19 6-C 19 6AA6, 12BA6, 6BD6, 12BD6, 8ABG 8-A 70L7GT 8-E 40A1, 40B2 9-R 955, 953 6-C 6AR5 1-BN 2D21 8-A 70L7GT 8-E 6AH4GT 9-R 957, 958A 6-CL 6AR5 1-BN 2D21 8-A 70L7GT 8-F 6535 957, 958A 6-CL 56A1 1-BN 61A 8-A 70L7GT 8-F 65BA 6-CK 6-CK 6AU5GT, 6AV5GT, 6BD5GT, 7-BR 61A 8-A 7AF7,14AF7/XXD,7F7,14F7 8-F 6CBG,6FBG 6-CK 6AU5GT, 6AV5GT, 6BD5GT, 7-BR 6F4,6L4 8-A 7AF7,14AF7/XXD,7F7,14F7 8-F 6CBG,6FBG 9-N 9005 8-AV5GT 8-AV5GT 8-AV5GT 8-	OA-	1005	6-RT		-BH		7. ₩	6AC6GT, 25N6G	8-DY	68A5	M-6	6/4	
6-8x 3E5, 3V4 7-8K 6AK6, 6AU6, 12AU6, 6AR6, 6AB6, 12BB6, 6BB6, 12BB6,	704	200	× 0 W		10	4 A A	- 1-	AATG AATGT ABTG ABTGT		400 400C* 10C0	14 0	ANAK	
6-BX 3E5, 3V4	2	274	M 0-0		20	ONCO	7-1	ייסיים יי	1 0	000, 0000,	71-	Civio	
6A4/LA, 47 6-C 19 68A6, 12BA6, 6BD6, 12BD6, 8-A 6A8, 6A8G, 6A8GT, 12A8G, 8-ES 40A1, 40B2 9.R 6D4, 12BA6, 6BD6, 12BD6, 8-A 6A8, 6A8GT, 12A8G, 8-ES 40A1, 40B2 9.R 6D4, 6CG 6AR5 6CG 26CG 26CG 26CG 6AR5 6CG 26CG 26CG 26CG 26CG 26CG 26CG 26CG	-AX	6D4	×8-9		-8K	6AH6, 6AK6, 6AU6, 12AU6,		10/6,10/6	8-E-L	OAH4G!	0	6AN1	
954, 956 6-CC 6AR5 6-CH 6AM5, 6BJ5 7-BN 2D21 6-CH 6AM5, 6BJ5 7-BN 2D21 8-A 70L7GT 8-A 70L7GT 8-A 70L7GT 8-A 70L7GT 8-B 70A7GT 8-D 6AU5GT, 6AU5GT, 6AU5GT, 6AU5GT, 6AU5GT, 6AU5GT 8-A 70A7GT 8-B 70A7GT	8-	6A4/LA, 47	0-C	19		68A6, 12BA6, 6BD6, 12BD6,	8-₽	6A8, 6A8G, 6A8GT, 12A8G,	8-ES	40A1, 40B2	9-R	6R4	
955, 5731 6-CH 6AM5, 6BJ5 7-BN 2D21 8-AB 70L7GT 8-FY 6352 9-T 957, 958A 6-CL 5641 7-BQ 6J4 8-AC 7AF7,14AF7, XXD,7F7,14F7, 8-FU 6BD4 9-X 1AB5 6-CK 6AU5GT, 6BV5GT, 6BV5GT, 6BV5GT 7-BS 9002 8-AD 6SA7GT, 12SA7GT 8-H 6JBG 9-X 9005	-8B	954, 956	77.4	4 A D K		OF A & KICK OKICK		6D8G	8-EX	6308	00	¥0.4	
957, 958A 6-CH 6AM5, 68J5 7-8N 2D21 8-AB 70A7GT 8-FU 68D4 9-1 9-1 959 959, 958A 6-CL 5641 6-CL 5641 8-AC 7AF7,14AF7/XXD,7F7,14F7, 8-FU 68D4 9-1 9-1 9-1 9-1 9-1 9-1 9-1 9-1 9-1 9-1	-BC	955, 5731	0			בטיים, טריסה, בטריסה	8-AA	70L7GT	8-EY	6352	2 1		
6-CL 5641 6-CL 5641 6-CL 5641 7-BQ 6J4 8-AC 7AF7,14AF7/XXD,7F7,14F7, 8-FU 68D4 9-U 959 6-CK 6AU5GT, 6AV5GT, 6BD5GT, 7-BR 6F4, 6L4 7-BS 9002 8-AD 6SA7GT,12SA7GT 8-H 6JBG 9-V 9-V	CA.	057 058 A	P-CH		Z S	raga.	A-A-R	70A7GT	J. 0	95A7GT		220	
1AB5 6-CK 6AU5GT, 6AV5GT, 6BD5GT, 7-BR 6F4, 6L4 7N7, 14N7 8-G 6C8G, 6F8G 9-X 9905 8-AD 6SATGT, 12SATGT 8-H 6J8G 9-Y	n d	050	0-C		7-BQ	614	8-AC	7 AF7 14 AF7 / XXD 7F7 14F7	. E.	6RD4	9-0	1/2	
9005 8-AD 6SA7GT, 12SA7GT 8-H 6J8G	PF	1 4 85	6-CK	_	1-BR	6F4, 6L4		7N7 14N7	2 0	ACRG AFRG	X-6	5847	
15/452 15	10-	2000		=	DC.	.000	4	TOTA SOL TOTA SOL			> 0	1 A X 0 1 X 0 1 X 9 B	
	98	9009			- 63	YOUY	8-AU	65A7G1,125A7G1	I.	6,86	1.	1 AAZ, 1AZ, 1AZD	
OA2, OB2 16-CL 5851 17-BT 6AQ6, 6AT6, 12AT6, 6AV6, 18-AE 7E7, 14E7, 7R7, 14R7 18-K 6K8, 6K8GT, 12K8 19-Z	2-BO	OA2, OB2	10-CL	5851	1-BT	6AQ6, 6AT6, 12AT6, 6AV6, I	8-AE	7E7, 14E7, 7R7, 14R7	8-K	6K8, 6K8G, 6K8GT, 12K8	Z-6	68D7	

-Page 32-

PANEL LAMP CHARACTERISTICS SYLVANIA

,	No.	548	\$40*	550		S51	\$55	2892	S292A	\$1455	S1455A
-	Service	Battery Set Dials	Battery Set Dials	Auto Sets.	Flash Lights	Auto Sets,	Auto Sets, Parking Lights	Radio Dials	Radio Dials Coin Machines	Coin Machines	Coin Machines
	Base	Screw	Bayonet	Screw		Bayonet	Bayonet	Screw	Bayonet	Screw	Bayonet
pfr	Style	T-31/4	T-31/4	G-31/2		G-3½	G-41/2	T-31/4	T-31/4	G-5	G-5
7	Color	Pink	Pink	White		White	White	White	White	Brown	Brown
Design	Amp.	90.0	90.0	0.20		0.20	0.40	0.17	0.17	0.25	0.25
De	Volts	2.0	2.0	7.5		7.5	6.5	2.9	6.6	18.0	18.0
Circuit	Volts	2.0	2.0	8-9		8-9	8-9	2.9	2.9	18.0	18.0
Type	S C	848	\$40*	\$50		S51	S55	2892	\$292A \$291	S1455	S1455A S1456
Type	No.	72	86	S40	541	542	S43	S44	\$45	546	\$47*
Usual	Service	Pilot Lamps	Pilot Lamps	Radio Dials	Radio Dials	Radio Dials	Radio Dials and Tuning Meters	Redio Dials and Tuning Meters	Radio Dials	Radio Dials and	Radio Dials
Miniature	Base	Candelabra	Candelabra	Screw	Screw	Screw	Bayonet	Bayonet	Bayonet	Screw	Bayonet
Bulb	Style	5	98	T-31/4	T-31/4	T-31/4	T-31/4	T-31/4	1-31/4	T-31/4	T-31/4
Bead	Color			Brown	White	Green	White	Blue	White	Blue	Brown
Design	Volts Amp.	10 Watt	6 Watt	0.15	0.50	0.50	0.50	0.25	0.50	0.25	0.15
De	Volts	10	9	6.3	2.5	3.2	2.5	6,3	3.2	6.3	6.3
Circuit	Volts	120	120	8-9	2.5	3.2	2.5	8-9	3.2	8-9	8-0
Type	No.	-	56	240	541	542	543	S44	545	246	\$47*

*Sylvania Types S47 and S49 are Interchangeable with Types 40A and 49A, respectively, in other brands.

SYLVANIA CRYSTAL DIODES

MAXIMUM RATINGS AT 25° C

CHARACTERISTICS AT 25° C

REVERSE CURRENT RESISTANCE (MA. MAX.) (OHMS MIN.) (OHM	- PEAK			PEAK		PEAK	PEAK		-			
SD (max max) RESISTANCE (MAX MAX) REVERSE CURRENT (OHMS MIN.) COHMS MAX.) REVERSE CURRENT (OHMS MIN.) COHMS MIN		CONTINUOUS RECURRENT AVERAGE VOLTAGE	RECURRENT REVERSE VOLTAGE	AVERAGE VOLTAGE	REVERSE			FORM	FORWARD	The state of the s	FORWARD	
SO (1) (MA. MAX)	RE WORKING ANDDE ANDDE SURGE FOR ZERO	WORKING ANODE ANODE SURGE FOR ZERO	ANODE SURGE FOR ZERO	ANODE SURGE FOR ZERO	SURGE FOR ZERO	FOR ZERO			CURRENT	REVERSE CURRENT	RESISTANCE	REVERSE RESISTANCE
50 @ -10V, 800 @ -50V 200 200K @ -10V, 100K @ -10V 30 @ -10V, 500 @ 50V 200 330K @ -10V, 100K @ -10V 6 @ -3V, 625 @ -100V 233 500K @ -3V, 100K @ -10V 200 @ -100V, 800 @ -100V 250 500K @ -3V, 200K @ -10V 200 @ -100V, 800 @ -100V 118 @ 1.5V 250K @ -10V 300 @ -100V 118 @ 1.5V 125K @ -10V 10 @ -10V 118 @ 1.5V 125K @ -10V 300 @ -100V 250 1.4 meg @ -10V 10 @ -10V 250 1.00K @ -30V 300 @ -100V 250 1.00K @ -30V 300 @ -100V 250 1.00K @ -30V 5 @ -5V, 50 @ -50V 250 100K @ -25V 800 @ -100V 250 100K @ -50V 10 @ -10V 250 200K @ -10V 10 @ -10V 250	(0°C.) (VOLTS) (MA.) (MA.) (MA. 1 SEC.) RESISTANCE	VOLTAGE CURRENT CURRENT DYNAMIC (VOLTS) (MA.) (MA. 1 SEC.) RESISTANCE	CURRENT CURRENT CURRENT DYNAMIC (MA.) (MA.) SEC.) RESISTANCE	CURRENT CURRENT DYNAMIC (MA.) (MA. 1 SEC.) RESISTANCE	(MA. 1 SEC.) RESISTANCE	DYNAMIC .) RESISTANCE			(MA. MIN)	(MA. MAX.)	(OHMS MAX.)	(OHMS MIN.)
30 @ -10V, 500 @ 50V	200	+75 60 150 50 500	150 50 500	50 500	200		75		5	-10V, 800 @	200	@ -10V, 625K @ -
6 (a) -30, 625 (a) -100 (b) 333 1.0 meg (a) -110 (c) -100 (c) 333 500K (a) -30, 160K (a) -100 (c) 250 (a) -30, 160K (a) -100 (c) 250 (a) -30, 160K (a) -100 (c) 250 (c	-55 to +75 60 150 50 500	+75 60 150 50 500	150 50 500	50 500	200		75		5	30 @ -10V, 500 @ 50V	200	@ -10V, 100K @ -
6 (a) -3v, 625 (a) -100v 6 (a) -3v, 505 (a) -100v 250 (a) -10v, 800 (a) -20v 35 (a) -10v 800 (a) -10v 10 (a) -10v 10 (a) -10v 10 (a) -10v 250 (a) -10v 10 (a) -10v 250 (b) -10v 250 (c) -10v 250 (c) -10v 250 (c) -10v 250 (c) -10v 250 (c) -10	2	+75 50 60 22.5 100	60 22.5 100	22.5 100	100		7.5		7.5	10 @ -100	133	1.0 meg @ -10V
6 @ -3v, 500 @ -100v	-50 to +75 100 150 50 500	+75 100 150 50 500	150 50 500	50 500	200		120		3		333	500K @ -3V, 160K @ -100V
200 @ -100V, 800 @ -200V 118 @ 1.5V 250K @ -10V 118 @ 1.5V 250K @ -10V 118 @ 1.5V 125K @ -10V 100 @ -10V 118 @ 1.5V 125K @ -10V 100 100 @ -10V 100 10	-55 to +75 100 150 50 500	+75 100 150 50 500	150 50 500	20 200	200		120				250	500K @ -3V, 200K @ -100Y
35 @ -10V 40 @ -10V 800 @ -10V 800 @ -10V 118 @ 1.5V 125K @ -10V 200	200 Volt Diode -50 to +75 200 150 50 525	+75 200 150 50 500 225	150 50 500 225	50 500 225	500 225	225					250	500K @ -100V, 250K @ -200V
118 @ 1.5 V 250K @ -10V 118 @ 1.5 V 125K @ -10V 100 @ -10V 200 1.4 meg @ -10V, 500K @ -10V 200 1.4 meg @ -10V, 500K @ -10V 250 333 330K @ -100V, 187K @ -10V 250 300K @ -150V 250 300K @ -150V 250 300K @ -250V 300K @ -20V 300K	Purpose Varistor (Note 2) -50 to +75 25 60 22.5 100 75	+75 25 60 22.5 100 75	60 22.5 100 75	22.5 100 75	100 75	75			2.75@1.5 V		18 @ 1.5V	250K @ -10V
10 @ -100	Purpose Varistor (Note 2) -50 to +75 25 40 22.5 50 75	+75 25 40 22.5 50 75	40 22.5 50 75	22.5 50 75	50 75	75			2.75@1.5V		18 @ 1.5V	250K @ -10V
7 @ -10V, 100 @ -50V	Volt Varistor (Note 2) -50 to +/3 100 50 22.5 75	021 67 6.72 06 001 67+	20 75 75 120	021 600 25	071 600	071			7.75 (W 1.5 V		VC.1 ® 811	125K @ -10V
300 @ -100V, 800 @ -150V		150 50 50 50 50 50 50 50 50 50 50 50 50 5	200 200 200 200 200 200 200 200 200 200	300	2000		75		0 4	001 VOI @	200	
500 (0) -150V	150 Volt Diode -50 to +75 150 150	+75 150 150 50 500	150 50 500	50 500	200		170) m	-100V 800 @-	333	, 1
300 (0) — 30V 67 100K (0) — 30V 300 (0) — 30V 67 100K (0) — 30V 67 100K (0) — 30V 600 (0) — 100V 250 140K (0) — 100V 800 (0) — 250V 800 (0) — 250V 800 (0) — 250V 150 (0) — 250V 100K (0) = 80V	-50 to +75 150 150 50 500	+75 150 150 50 500	150 50 500	50 500	200		170		4	500 @ -150V	250	
300 @ -30V 250 140K @ -100V 250 140K @ -100V 250 150K (Note 4) 333 330K @ -250V 300 @ -200V 300 @ -250V 300 @ -200V 300	1000	+75 40 200 60 1000	200 60 1000	0001 09	1000		50		15	.300 @ -30V	67	100K @ -30V
700 @ -100V	ode -50 to +75	+75 40 200 60 1000	200 60 1000	0001 09	0001		20		15	300 @ -30V	67	100K @ -30V
5 (a) - 100V	-50 to +75 100 150 50 500	+75 100 150 50 500	150 50 500	50 500	200		120		4	700 @ -1000	250	140K @ -100V
5 @ -50, 50 @ -500, 250	250 Volt Diode	000 00 001 001 074	200 200 200 200 200 200 200 200 200 200	200	200		120		4 %	900 @ 2500	220	300K @ -100V
5 @ -5V, 50 @ -50V	ade = 50 to +75 25 150 50 500	+75 25 150 50 500	150 50 500	200 200	200		30		Note 3	Note 4	222	150K (Note 4)
50 @ -10V, 850 @ -50V	de -50 to +75 80 100 35 500	+75 80 100 35 500	100 35 500	35 500	200	_	100	_	4.0		250	(a) -5V, 1 meg (a)
300 @ -30V 10 @ -10V 333 1.0 meg @ -10V 10 meg (0 -10V 333 2.00 2.00K (Note 4) 200 200K (0 55°C (Note 8) 200 200K (0 55°C (Note 8)	-55 to +75 60 125 40	+75 60 125 40 400	125 40 400	40 400	400	_	75		5	-10V, 850 @	20	@ -10V, 588K @
10 @ -10V 333 1.0 meg @ -10V Note 8 200 200K @ 55°C (Note 8) 200 200K @ 55°C (Note 8) 200 200K @ 55°C (Note 8) 400 200K @ 55°C (Note 8) 400 200K @ 55°C (Note 8) 200 200K @ 55°C (Note 8)	5) -50 to +75 40 200 60 1000	+75 40 200 60 1000	200 60 1000	0001 09	1000	_	20	. 3	15	300 @ -30V	67	100K @ -30V
Note 8 Note 9 No	liode -55 to +75 40 90 30 350	+75 40 90 30 350	90 30 350	30 350	350		20		8	10 @ -100	333	1.0 meg @ -10V
Note 8 Note 9 No	UHF Mixer Didde -50 to +75 Note o	+75				1 1	Note					
Note 8 Note 8 200 200K (@ 55°C (Note 8) 200 200K (@ 55°C (Note 8) 400 200K (@ 55°C (Note 8) 400 200K (@ 55°C (Note 8) 400 100K (@ 55°C (Note 8) 200 200K (Wote 4)	le -50 to +75 25 150 50 500	+75 25 150 50 500	150 50 500	50 500	200		75		Note 3	Note 4		150K (Note 4)
Note 8 200 400K (@.55°C (Note 8) 200 200K (@.55°C (Note 8) 400 200K (@.55°C (Note 8) 200 200K (@.55°C (Note 8)	200	+75 15 150 50 500	150 50 500	50 500	200	-	75		Note 7	1	1	
Note 8	-50 to +75 60 150 25 500	+75 60 150 25 500	150 25 500	25 500	200		75		5	Note 8	200	400K @ 55°C (Note 8)
Note 8	-50 to +75	+75 60 150 25 500	150 25 500	25 500	200		75		5	Note 8	200	200K @ 55°C (Note 8)
Note 8 400 200K @ 55°C (Note 8) 400 Note 8 200 200K @ 55°C (Note 8) 200 A00K @ 55°C (Note 8) 200 200K @ 55°C (Notes 8 & 200 200K @ 55°C (Notes 8 & 200 200K @ 55°C (Notes 8 & 200 200K @ 55°C (Note 4)	-50 to +75	+75 60 150 25 500	150 25 500	25 500	200		75		2.5	Note 8	400	400K @ 55°C (Note 8)
Note 8 400 100K @ 55°C (Note 8) 200 400K @ 55°C (Notes 8 & 200 200K @ 55°C (Note 4)	-50 to +75 60 150 25 500	+75 60 150 25 500	150 25 500	25 500	200		75	-	2.5	Note 8	400	200K @ 55°C (Note 8)
Note 8 200 400K·@ 55°C (Notes 8 & 200 200K @ 55°C (Notes 8 & Note 4 150K (Note 4)	-50 to +75 60 150 25 500	60 150 25 500	150 25 500	25 500	200		75		2.5	Note 8	400	100K @ 55°C (Note 8)
Note 8 2000 Note 4	-50 to +75 60 150 25 500	60 150 25 500	150 25 500	25 500	200		75	-	5	Note 8	200	400K @ 55°C (Notes 8 & 9)
Note 4	_50 to +75	60 150 25 500	150 25 500	25 500	200		75		5	Note 8	200	200K @ 55°C (Notes 8 & 9)
	de -50 to +75 25 150 50 500	25 150 50 500	150 50 500	50 500	200		30		Note 10	Note 4		150K (Note 4)
	UHF Mixer Diode -50 to +75 Note 6		Note 6	Note 6	Note 6	Note 6	Note 6					

Note 1-Units are matched in the forward direction at 1 volt so that the current Rowing through the lower resistance unit is within 10% of that through the higher resistance unit. Ratings are shown for each diode.

Note 2—Consists of four specially selected and matched diodes whose resistances are balanced within ±2.50% in the forward direction at 1.5 volts. For additional balance, the forward resistance of each varistor pair is matched to within three ohms. Ratings shown are for each diode. Note 3—Units are tested in a circuit employing an input of 1.6 volts rms at 40 MC, 75% modulated at 400 cycles. Demodulated output across a 4700 ohm resistor shunted by a 5 $\mu\mu$ capacitor is a minimum of 1.55 volts peak to peak.

Note 4-Minimum specified reverse resistance applies to all points between 0 and -10 volts with 60 cps sweep. Note 5-Consists of four specially selected diodes whose forward currents are

matched within a range of 1 ma, with 1 volt applied. Ratings shown are for each diode.

Note 6—The 1N82, 1N82A, and 1N172 are low noise and low conversion loss UMF television mixer crystals. The noise factor of the 1N82 is 16 db max, that of the 1N82A is 14 db ma. The noise factor is measured at 700 mc with a local oscillator drive (bias current) of 0.5 ma.

Note 7-Units are tested in a circuit employing a fundamental frequency of 126 The rectified 3rd harmonic output is 0.5 ma minimum. MC.

Note 8-Minimum specified reverse resistance applies at 55°C for all points between -10V and -50V with 60 cps sweep.

voltage necessary to give 30 ma forward conduction is rapidly switched to --35 volts. Note 9-Reverse recovery time for these units is specified and defined as the time required for the diode to recover to a given reverse current when the operating -Page 34-

Note 10—Units are tested in a circuit employing an input of 0.1 volts rms at 44 MC. Rectified output is a minimum of 140 μa with a 3600 ohm load and 65 µh shunted by 5 µµf capacitor.

usec. Time

lesistance

Current

Reverse ohms

00 00 0 00 00 0

50 K 50 K 50 K

700 82.5 700 175

Type 1N119

Note 11-Normally supplied with 1/2" minimum leads but will be supplied without leads for clip-in applications upon request.

The polarity of all Sylvania crystals is indicated by a graphic symbol on the body. The cathode side is indicated by a color band and the label "CATH".

Technical Literature





TUBE CHARACTERISTICS BOOKLETS

Complete information on characteristics of all types of Sylvania tubes, including tube base diagrams and helpful suggestions. FREE.

TRANSMITTING TUBES Order No. 213

TELEVISION TUBES Order No. 216



GERMANIUM CRYSTAL DIODES Order No. EC36D FREE

Published by Sylvania and constantly revised to keep you informed about the most recent electronic developments.





TECHNICAL MANUAL

Complete data, in convenient forms, on Sylvania tubes. Ring binder permits easy insertion of new data sheets which are mailed as released at no addi-

Order No. 202 Additional binders-75c



TECHNICAL SECTIONS

Contain all issues of Technical Sections of Sylvania News. Vol. 1 (1935 to 1940 incl.), Vol. 2 (1941 to 1945 incl.), Vol. 3 (1946 to 1949 incl.), Vol. 4 (1950 to date).

Order No. 220 \$1 per vol. (Indicate Volume No.)



ELECTRONIC TUBE BOOKLET

New folder No. EC20-J, gives characteristics and descriptions of special electronic tubes.

Order No. 917

Order now

from your Sylvania distributor or write direct to

Sylvania Central Advertising Distribution Dept.

1100 Main Street Buffalo 9, N. Y.



40 USES FOR GERMANIUM DIODES

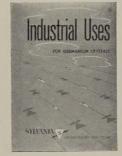
Order No. 240



Order No. 239



Order No. 241



INDUSTRIAL USES FOR GERMANIUM CRYSTALS

Order No. 242

SYLVANIA ELECTRIC PRODUCTS INC. 1740 BROADWAY NEW YORK 19, N.Y.

